

DICOM Conformance Statement

Product Name: ACUSON Sequoia
Ultrasound System

Release: 12.2

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Conformance Statement Overview

The Sequoia system acquires ultrasound images and generates patient and image data that can be transferred using DICOM standard protocols to other DICOM compliant applications or devices (printer). It allows seamless workflow integration by providing support for Modality Worklist fetching and Modality Performed Procedure Steps using DICOM.

Table 1-1 provides an overview of supported DICOM network services.

Table 1-1. Network Services

Networking SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Image Transfer		
Ultrasound Image Storage	Yes	No
Ultrasound Multiframe Image Storage	Yes	No
Secondary Capture Image Storage	Yes	No
Storage Commitment Push Model	Yes	No
Reports-Measurement Transfer		
DICOM Comprehensive Structured Report	Yes	No
Structured Report (Acuson)*	Yes	No
Workflow Management		
Modality Worklist Information Model- FIND	Yes	No
Modality Performed Procedure Step	Yes**	No
Print Management		
Basic Grayscale Print Management	Yes	No
Basic Color Print Management	Yes	No
General		
Verification	Yes	Yes

* This SOP Class Name is a private Structure Reporting (SR) SOP Class used only by the Acuson Sequoia ultrasound system.

** Implementation of MPPS provides support only for IHE "simple case".

Table 1-2 provides an overview of supported DICOM media services.

Table 1-2. Media Services

Media Storage Application Profile	Write Files (FSC/FSU)	Read Files (FSR)
Magneto Optical Disk		
STD-US-ID-SF-MOD(128, 230, 540, 640)	Yes / Yes**	Yes**
STD-US-SC-MF-MOD(128, 230, 540, 640)	Yes / Yes**	Yes**
DVD-Recordable		
STD-US-ID-SF-DVD, STD-US-ID-MF-DVD	Yes / Yes**	Yes**
Compact Disk-Recordable		
STD-US-ID-SF-CDR, STD-US-ID-MF-CDR	Yes / Yes**	Yes**

** As an FSR/FSU Sequoia can read/update studies created by Sequoia only.

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1. Purpose

This document describes the conformance to the ACR_NEMA DICOM 3.0 Standard by the Acuson Sequoia™ ultrasound system from Siemens Medical Solutions, Ultrasound Division. It shall establish the conformance specifications for this system only, and does not apply to other products offered by Siemens Medical Solutions.

The Sequoia system is a device that generates ultrasound images and other data that can be sent using DICOM standard protocols and definitions to other DICOM compliant devices that support SOP classes as defined in Table 3-1 in this document.

1.1 Scope

The DICOM standard provides a well-defined set of structures and protocols that allow inter-operability of a wide variety of medical imaging devices.

When configured with the DICOM option, the Sequoia system provides support for essential services related to ultrasound scanning and connectivity to DICOM compliant devices. The Sequoia system will not support all features supported by the DICOM standard. This document clearly states the DICOM services and data classes that are supported by the applications included with the Sequoia system. The intent of this document is to allow users and other vendors who also conform to the DICOM standard to exchange information within the specific context of those elements of the DICOM standard that the Sequoia system supports.

This document is written with respect to the adopted portions of the DICOM standard, Revision 3.0. The following sections of this document follow the outline specified in the DICOM Standard NEMA publication PS3.2.¹

2. Implementation Model

Sequoia system users can store images and other data directly on the Sequoia system hard disk. Images and measurements can be exported to a DICOM archive server or workstation on a network, and in addition to MO disk media. The system is capable of writing/reading the exams performed on Sequoia to/from DVD/CD media. Storage Commitment is implemented as a “push” model only. The user is capable of querying a DICOM Modality Worklist server for a list of scheduled patient procedures, as well as supporting a Modality Performed Procedure Step (MPPS) server. Printing of images to DICOM printers is also supported. In the following sections, the Sequoia system real world activities are indicated by “Real World Activity” name while “SEQUOIA AE” indicates the invoked Application Entity. Similarly, the activities associated with service providers are indicated as “Real World Service Activity”.

¹ Second part of the DICOM standard: NEMA Standards Publication PS 3.2-2006, Digital Imaging and Communications in Medicine (DICOM), Part 2: Conformance

2.1 Application Data Flow Diagram

Figure 2-1. Implementation Model

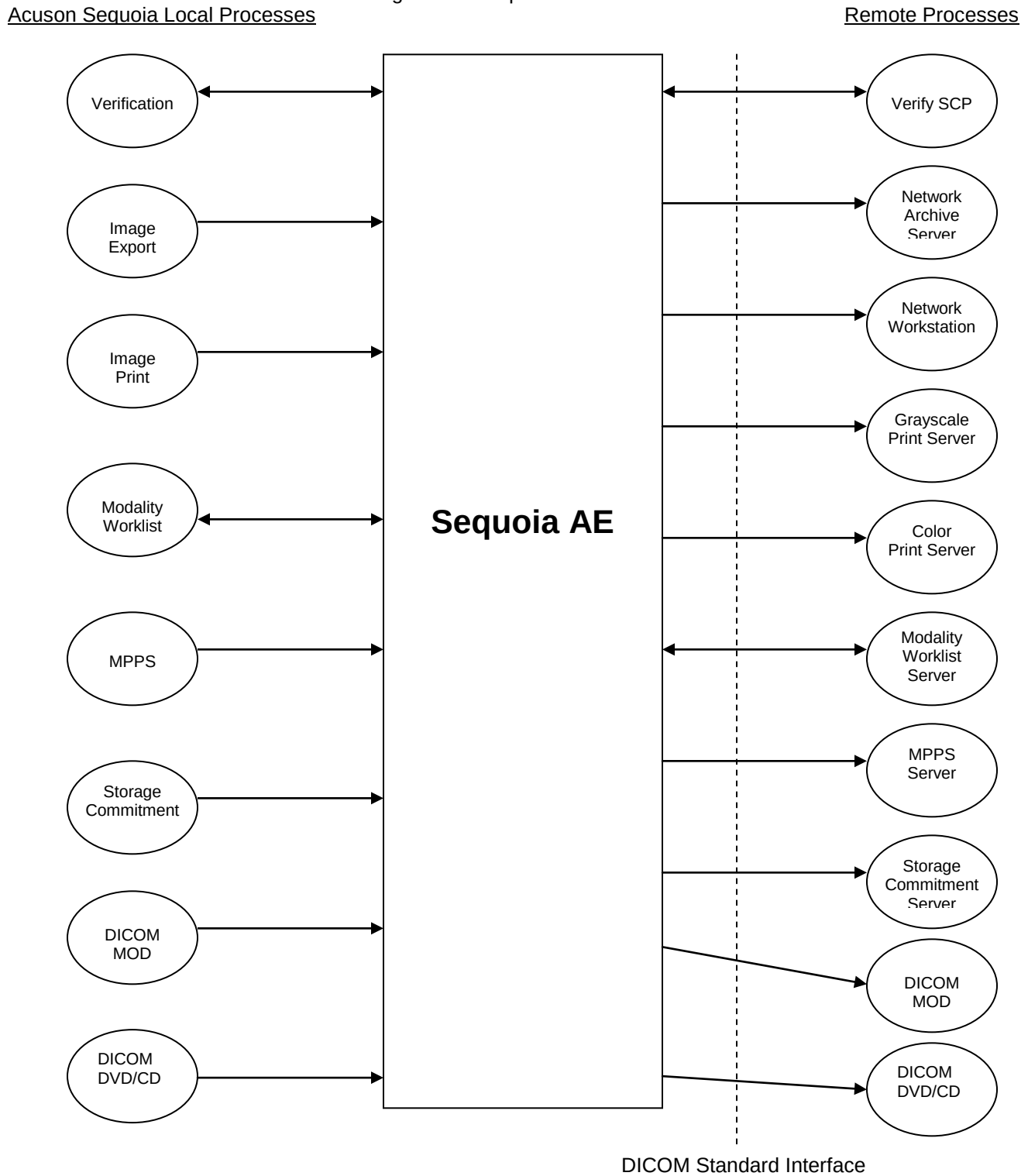


Figure 2-1 illustrates the Implementation Model of the Sequoia system. The Sequoia system's Application Entity (AE) is shown in the box. Relationship between the user invoked activities (in the circles at the left of the AE) and the associated real-world activities provided by DICOM service providers (in the circles on the right side of the diagram) are shown.

2.1.1 Verification

Verification is a part of the "Service UI – Network Setup" menu located in the Sequoia System Setup Menu. Verification can be used to send a DICOM verification request (Echo) to a remote Application Entity (AE) and will listen for a response. Verification on Sequoia can be done as an SCU or an SCP.

When Verification is used, the following messages are returned to the user:

1. dicomPing result = SUCCESS
2. dicomPing result = FAILED

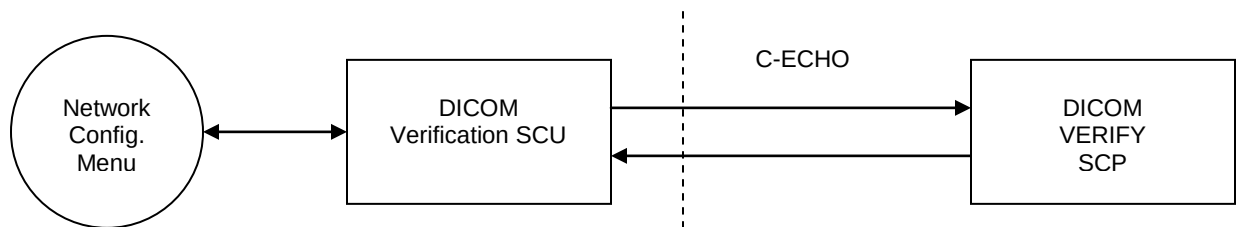


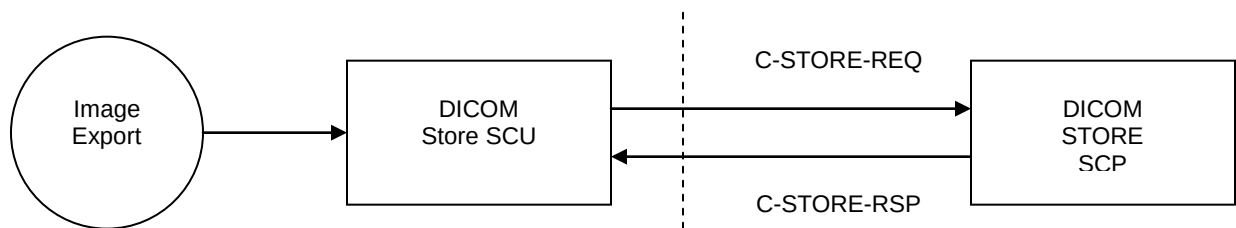
Figure 2-2. Verification Model

DICOM Standard Interface

2.1.2 Image Export

Sequoia supports image export for Ultrasound single frame and multi-frame images, Retired Ultrasound single frame and multi frame images as well Secondary Captures to a DICOM archive server, that supports the Storage service class as an SCP. In addition, Sequoia exports measurements via DICOM Comprehensive Structured Report (SR) object to a DICOM archive server that supports DICOM comprehensive SR SOP classes. It also exports measurements via a private Structured Report (SR) object to the DICOM archive server if the private SR SOP class is supported.

Figure 2-3. Image Export Model



DICOM Standard Interface

The user can manually use the Study Util UI to select completed studies and export them on a single association. The destination is selected from a pop-up selection of pre-configured devices.

Additionally, there are automated background image export methods. The system can be set to store either "in-progress" or "on study close" where:

- The system automatically exports an image as soon as it is captured and saved to the local disk while the study is currently open and in-progress.
- The system automatically exports all the images belonging to the current study as it closes.
- The system automatically exports one or more studies in the background, acquired while in a portable non-networked mode, once it is powered up on the network.

The “in-progress” method distributes the network load over time and can provide image review at the review station in near real-time (provided the server supports this capability). The “on study close” method lets the user store studies more accurately in the server. It is a common practice in Ultrasound to delete some images or modify demographic data before the study is closed.

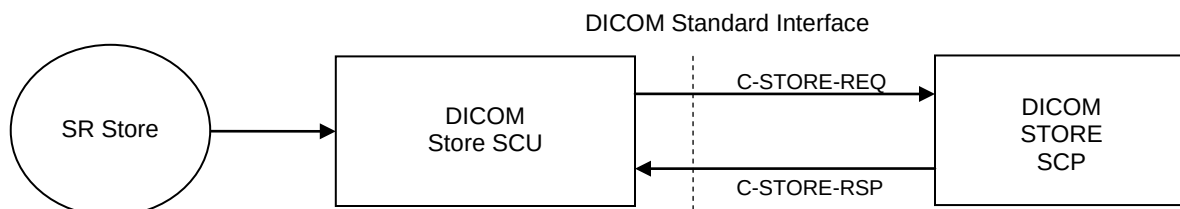
In the event Sequoia is taken off the network as a portable system or when a network failure occurs during a background export, the Store SCU maintains a queue of failed C-STORE requests. These are periodically retried subsequent to the end of the study. The queue is also retried upon power cycling the Sequoia.

To use background export, the user pre-configures the destinations and mode of copy with the “Define Servers” setup under the Aegis menu located in the Sequoia System Setup. In addition, studies can be copied to two destinations archive servers.

2.1.2.1 DICOM Comprehensive Structured Reporting

Sequoia is capable of exporting measurement data via DICOM Comprehensive Structured Report (SR) SOP class object to the DICOM archive server that supports DICOM Comprehensive SR SOP class. The Comprehensive SR will only be sent if (a) Sequoia is configured to store to a DICOM archive server and (b) the association negotiation for the DICOM Comprehensive SR SOP Class with a UID 1.2.840.10008.5.1.4.1.1.88.33 is successful.

Figure 2-4. Structured Report Model



The DICOM Comprehensive SR object contains patient information and all the measurements and calculations entered on one of the Sequoia Calculation package worksheets for OB, GYN, Cardiac and Vascular studies. These measurements are exported in the DICOM Comprehensive SR using the DICOM templates for OB-GYN, Cardiac and Vascular. Template Identifier (TID) 5000 contains the OB-GYN measurements, TID 5100 contains Vascular measurements and TID 5200 contains Cardiac measurements. DICOM SR includes one of these templates per study depending on the measurements entered in that study.

Methods of export for DICOM Comprehensive SR:

The export of DICOM SR is always accompanied by export of image data. Sequoia does not support the transfer of only SR without any images. Various methods supported by Sequoia system for export of DICOM Comprehensive SR are listed below:

- In-progress transfer – The system automatically exports images in-progress but the DICOM SR is only transferred when the study is closed.

- On Study Close transfer – The system automatically exports images as well as DICOM SR as soon as the study is close.
- Bulk transfer - The user manually selects completed study/studies from the Study Utils UI and exports the images and the DICOM SR from that study in the same association.
- Portable mode - The system automatically exports one or more studies including images and DICOM SR in the background, acquired while in a portable non-networked mode, once it is powered up on the network.

2.1.2.2 Private Structured Reporting

Sequoia is capable of sending a Private Structured Report (SR) SOP class object. The SR SOP Class will only be sent if (a) the KinetDx button on the Sequoia DICOM server configuration page has been selected for the destination server and (b) the association negotiation for the SR SOP Class is successful.

The SR objects contain patient information and any measurements or calculations entered into one of the three Sequoia calculations package worksheets for OB, Cardiac, or Vascular studies.

The product implementation of Private Structured Reporting predated the adoption of DICOM Supplement 23 and substantially differs from that final version. Data contained in the Sequoia SR object cannot be extracted to populate other Structured Reporting implementations in non-Siemens devices. Sequoia uses a Private Structured Reporting SOP Class UID 1.2.840.10008.5.1.4.1.1.88.3.

Methods of export for Sequoia Private SR:

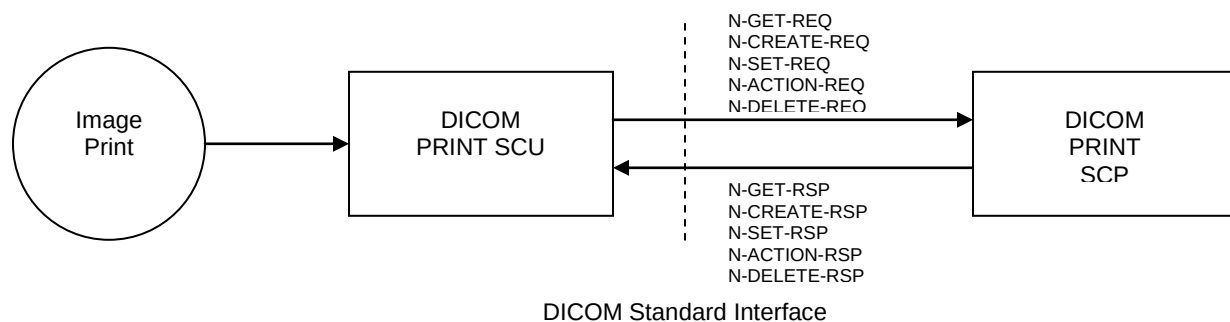
Various methods supported by Sequoia system for export of Private SR are listed below:

- In-progress transfer – The system automatically exports images and Private SR in-progress as and when the images and measurements are captured and updated.
- On Study Close transfer – The system automatically exports images as well as Private SR as soon as the study is close.
- Bulk transfer - The user manually selects completed study/studies from the Study Utils UI and exports the images and the Private SR from that study in the same association.
- Portable mode - The system automatically exports one or more studies including images and Private SR in the background, acquired while in a portable non-networked mode, once it is powered up on the network.

2.1.3 Image Print

Image Print allows the user to print Sequoia single frame Ultrasound images to a network DICOM printer.

Figure 2-5. Image Print Model



The user can manually use the Study Util UI to select completed studies for printing. The printers and print formats are determined by the selections made in the "Define Printers" setup under the Aegis menu

located in the Sequoia System Setup. It is possible to select one B&W and one color printer to route gray scale images and color doppler images to separate printers.

Additionally, there are automated background printing methods available. The system can be setup to either print a study “in-progress” or “on study close” where:

- The system automatically prints a sheet of film as soon as enough static images have been captured to create a full format while the study is in-progress.
- The system automatically prints all films belonging to the study as soon as the study is closed.
- The system automatically prints in the background, acquired while in a portable non-networked mode, once it is powered up on the network.

Since it can take 30 seconds to several minutes to print all films, the “in-progress” setting will print most of the films before the study is closed. However, for ultrasound users who delete images throughout the study, the “on study close” method will give more accurate study printouts.

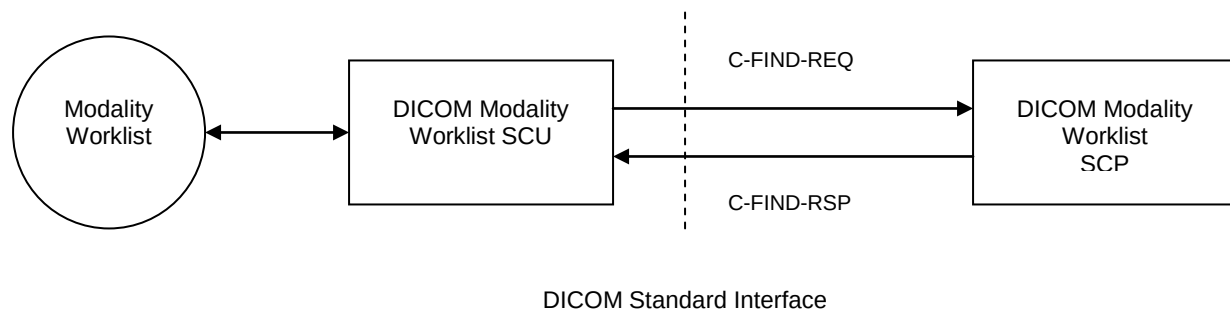
The user can use the “Print Now” button to force a partially formatted film before it is fully populated with images and automatic printing occurs.

In the event Sequoia is taken off the network as a portable system or a network failure is encountered during a background export, the Print SCU maintains a queue of failed print requests. These are periodically retried subsequent to the end of the study. The queue is also retried upon power cycling the Sequoia.

2.1.4 Modality Worklist

The Patient Demographics screen (the Begin Screen) can be automatically filled by using the ‘Worklist’ Real World Activity.

Figure 2-6. Modality Worklist Model



Depressing the 'Begin/End' key on the keyboard initiates the patient demographics screen. Clicking on the 'Query' button initiates the search. The search criteria are limited to the following Request to Return Elements:

Patient Name
Patient ID
Accession Number
Procedure Start Date
Modality
Station AE Title

The Patient Name, Patient ID, and Accession Number fields that are partially filled or empty will be treated as though an implicit wildcard was appended at the end of the field. If only one matching patient is found in the query, the patient demographics screen will be immediately populated using the returned information. If no matches are found, a message will be presented to the operator indicating so. If more

than one matching patient is found, a pick list of patient exams will be presented to the user to select from. The list will be limited to the number that was specified in the Dicom Worklist Server Setup.

The user will have the option to select a patient study, or cancel the operation. Selection of a patient from the list will cause all demographic information for that patient to be loaded in the patient demographic screen.

The following data fields will be populated on the patient demographics screen:

Table 2-1. Patient Demographics Attributes

Attribute Name	Tag
Patient's Full Name	(0010,0010)
Patient ID	(0010,0020)
Study Type	(0040,0007)*
Accession Number	(0008,0050)
SSN	(0010,1000)
Date of Birth	(0010,0030)
Indication	(0040,1002)
Sex	(0010,0040)
Weight	(0010,1030)
Height	(0010,1020)
Diagnosing Physician	(0008,1060)
Referring Physician	(0008,0090)

* This tag will later be mapped to the Study Description tag (0008,1030) in the Storage SOP Class.

See Section 3.1.2.4.2 (Modality Worklist Service SOP Class) for more specific details.

2.1.5 Modality Performed Procedure Step

The Sequoia DICOM Modality Performed Procedure Step (MPPS) uses the DICOM 3.0 MPPS service class SCU to send event transactions, which are triggered at the start of a study (i.e. once the first image/clip is acquired) and at the end of a study. The MPPS SCU supports both the N-CREATE and N-SET DIMSE Service Elements. A different MPPS server can be configured separately from a Modality Worklist server on the Sequoia system.

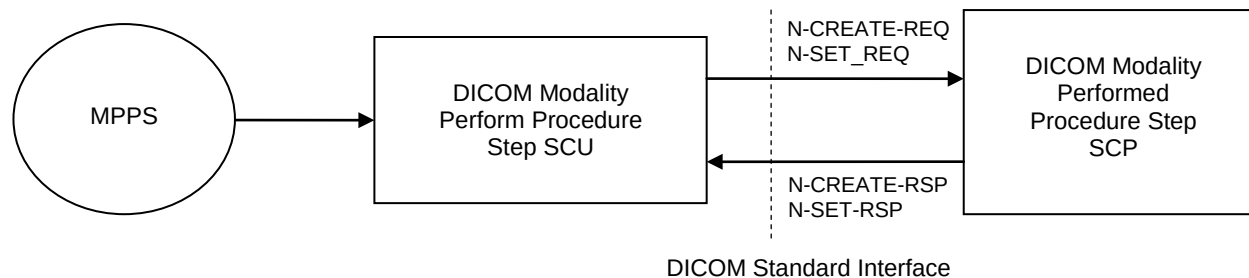
This information can be used by the Hospital Information System to manage its list of scheduled patients that is requested by a DICOM Modality Worklist query.

When a study is started on Sequoia, it uses the N-CREATE DIMSE to construct an MPPS-SOP with the MPPS server SCP. In case of unscheduled study the patient id is generated by Sequoia and is used to send in N-CREATE message to SCP. There is no further interaction with the MPPS SCP until the study ends. When the study is closed, the Sequoia system uses the N-SET DIMSE to set the values contained in the MPPS-SOP.

MPPS is also triggered when study is restarted within 24 hours of its last closed. In this case MPPS is linked to same Scheduled Procedure Steps as it was before.

The Sequoia N-SET value for the "Performed Procedure Step Status" (0004,0252) is set to "COMPLETED". It does not support a way to DISCONTINUE or abandon a study which was IN PROGRESS. Additionally, the contents of the "Performed Series Sequence" (0040,0340) are updated so that all mandatory attributes are supplied to the SCP.

Figure 2-7. Modality Performed Procedure Step Model



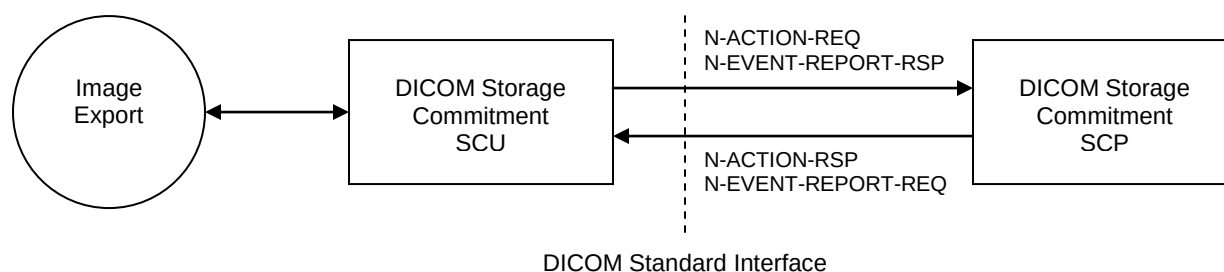
2.1.6 Storage Commitment

DICOM Storage Commitment is embedded in the successful completion of a study store to a DICOM Store SCP. It is dynamically negotiated when all images have been successfully stored to a server. In the case of Structured Reporting for KinetDx servers, Sequoia includes a Private SR SOP instance UID in the Storage Commitment N-ACTION request and will process the N-EVENT-REPORT for the SR SOP instance. Similarly for DICOM SR, Sequoia includes DICOM Comprehensive SR SOP Instance UID in the Storage Commitment N-ACTION-RQ to the DICOM server that supports Comprehensive SR SOP class and Sequoia will also process the N-EVENT-REPORT-RQ from the DICOM server for DICOM Comprehensive SR SOP instance.

Sequoia uses the DICOM Storage Commitment Push Model to inform the server when all stores for a study have been completed. The Storage Commitment SCU uses the N-ACTION primitive to make a request to the SCP for safekeeping of a set of SOP instances (e.g.: Ultrasound images). Note that the N-ACTION primitive is sent in the same association as the C-STORE primitives.

The Sequoia Storage Commitment SCU also performs a role reversal and becomes the SCP for the N-EVENT-REPORT primitives received from the original SCP (now an SCU). Note that the N-EVENT-REPORT primitives are sent on separate associations.

Figure 2-8. Storage Commitment Model



2.1.7 DICOM MOD Media Interchange

The DICOM MOD Media Interchange performs the following:

Table 2-2. DICOM MOD Ultrasound Application Profiles

Application Profile	Real-World Activity	Role
STD-US-ID-SF-MOD128	Create MO	FSC, [FSU, FSR]
STD-US-ID-MF-MOD128	Create MO	FSC, [FSU, FSR]
STD-US-ID-SF-MOD230	Create MO	FSC, [FSU, FSR]

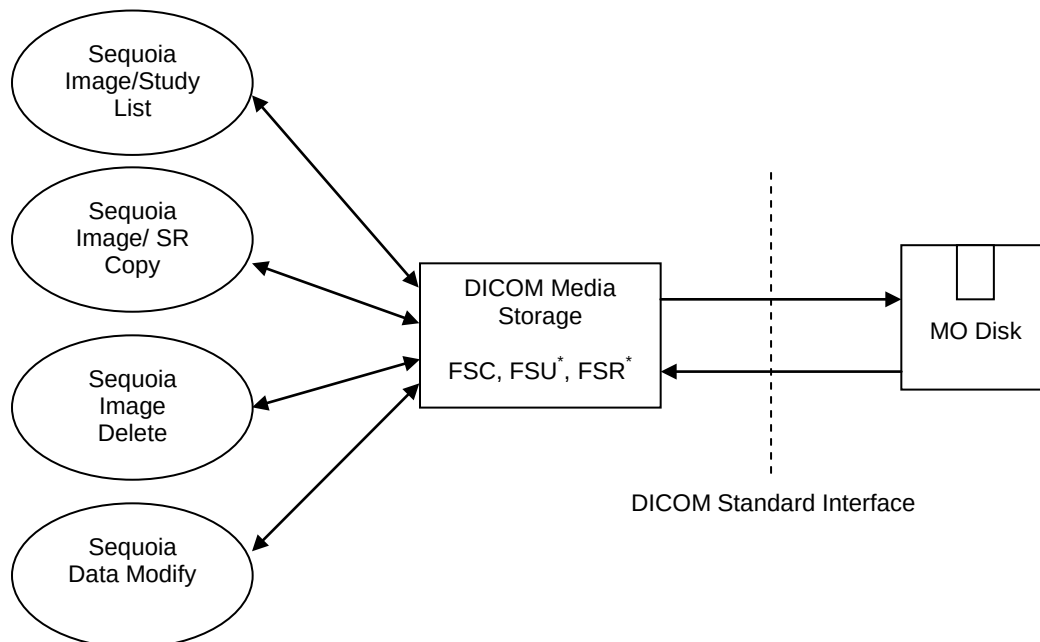
Application Profile	Real-World Activity	Role
STD-US-ID-MF-MOD230	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-SF-MOD540	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-MF-MOD540	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-SF-MOD640	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-MF-MOD640	Create MO	FSC, [FSU*, FSR*]

*Updater/Reader only applicable to Sequoia & Aspen systems

- File-set creator (FSC): Sequoia creates a DICOM MOD medium when the user copies studies/images to MO. A DICOM 3.0 conforming DicomDIR** file is created together with the directory structures and image files.
- Supported MO disk formats are 128MB, 230MB, 540MB, and 640MB
- The Sequoia physical MO drive may be either a 230MB, 640MB, or 1.3GB drive.
- Sequoia creates a partitioned MOD if formatted on the system.
- File-set updater (FSU*): Sequoia modifies the DicomDIR file and image files when the user copies or deletes studies.
- File-set reader (FSR*): Sequoia reads the DicomDIR and makes a listing. The DicomDIR file is read and parsed by the system Study Util user interface to generate the study listing.

** DicomDIR file created for the MO does not contain DICOM Comprehensive SR series.

Figure 2-9. DICOM MOD Media Interchange Model



Studies/images can be manually copied to MOD from the Sequoia local hard drive via the Study Util user interface. Note that both DICOM Comprehensive SR and Private SR objects along with the Images are copied to the MOD.

Studies/images can be manually copied to the Sequoia local hard drive from MOD via the Study Util user interface.*** In addition, studies can be reviewed directly from the MO disk.

***DICOM SR will not be copied with the study from MO to the Sequoia harddrive.

Limitations:

- Only Aspen and Sequoia studies can be copied to and from MOD. An MOD can contain a mix of Aspen and Sequoia studies.
- Only Aspen and Sequoia created studies can be reviewed on Sequoia.
- The Aspen release version must be 3.0 or greater.
- The Sequoia release version must be 1.0 or greater.

2.1.8 DICOM DVD/CD Media Interchange

The DICOM DVD/CD Media Interchange performs the following:

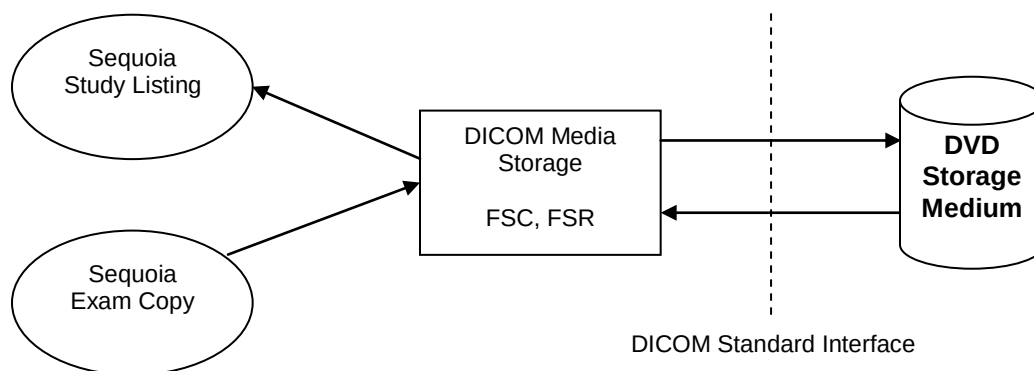
Table 2-3. DICOM DVD/CD Ultrasound Application Profiles

Application Profile	Real-World Activity	Role
STD-US-ID-SF-CDR	Create CD	FSC, FSR*
STD-US-ID-SF-DVD	Create DVD	FSC, FSR*
STD-US-ID-MF-CDR	Create CD	FSC, FSR*
STD-US-ID-MF-DVD	Create DVD	FSC, FSR*

*Reader only applicable to Sequoia & Aspen systems

- File-set creator (FSC): Sequoia creates a DICOM DVD/CD medium when the user copies studies from Sequoia to DVD/CD. A DICOM 3.0 conforming DICOMDIR file is created together with the directory structures and image files.
- File-set reader (FSR): Sequoia reads the DICOMDIR and makes a listing. The DICOMDIR file is read and parsed by the system Study Util user interface to generate the study listing.
- The Sequoia system can read/write a physical media of type DVD-R 120mm or CD-R.
- The user can switch drive to Internal Hard Drive, MO drive or DVD/CD drive. The Study Util user interface lists exams on the corresponding drive.

Figure 2-10. DICOM DVD/CD Media Interchange Model



Studies can be manually copied to DVD/CD from the Sequoia local hard drive via the Study Util user interface. Note that Private SR, DICOM SR and Images are copied to the DVD/CD. User can copy the studies from Sequoia to DVD/CD in multiple sessions. DICOMDIR will be updated to reflect the recent studies copied to DVD/CD. When user selects “Finalize” options from DVD/CD Study Util user interface, no more studies can be copied thereafter.

Studies can be manually copied to the Sequoia local hard drive from DVD/CD via the Study Util user interface.

Limitations:

- Only Aspen and Sequoia studies can be copied to and from DVD/CD. A DVD/CD can contain a mix of Aspen and Sequoia studies.
- Only Aspen and Sequoia created studies can be reviewed on Sequoia.

The level of compatibility of Sequoia DICOM DVD/CDs with a non-Sequoia DICOM 3.0 reader must be assessed by the maker of the reader.

2.2 AE Functional Definition

2.2.1 Verification Real-World Activities

The Sequoia application entity performs Verification Service Class as SCU and SCP thus allowing the operator to verify the ability of an application on a remote node to receive DICOM messages.

2.2.2 Image Export Real-World Activities

The Sequoia application entity performs all of the functions to transmit ultrasound images and associated data to network servers and/or workstations. The Sequoia AE supports both Ultrasound Image, Ultrasound Multi-frame Image, Secondary captures, Retired Ultrasound Image and Retired Ultrasound Multi-frame Image Store SOP classes as an SCU. Sequoia also supports the DICOM Comprehensive SR and Private SR Store SOP classes as an SCU.

2.2.3 Image Print Real-World Activities

The Sequoia AE provides all aspects of the Print Management SCU. The AE initiates separate associations to the print server. The Sequoia AE accommodates both grayscale and color print servers.

2.2.4 Modality Worklist Real-World Activities

The Sequoia AE supports the DICOM Basic Worklist Management Service as an SCU. The AE initiates an association to the active Worklist server when a Worklist query is selected (via the "Query" softkey).. The association is closed upon the completion of each query.

2.2.5 Modality Performed Procedure Step Real-World Activities

The Sequoia AE provides a limited implementation of Modality Performed Procedure Step (MPPS) in the role of SCU. The MPPS implementation only partially supports the IHE "simple case" and "append case". Additionally, several important attributes are missing from the N-Create and N-Set commands. Please refer to Table 3-23 for N-CREATE and Table 3-24 for N-SET attributes.

2.2.6 Storage Commitment Real-World Activities

The Sequoia AE supports Storage Commitment Push Model SOP class to inform servers when all the store operations for a study have been completed. The Storage Commitment SCU uses the N-ACTION primitive to request safekeeping of a set of SOP Instances (Ultrasound Images and SR objects). The Storage Commitment SCU also processes the N-EVENT-REPORT primitives that are received from the SCP indicating 'successful' or 'non-successful' commitment status. Currently the N-EVENT-REPORT information is not used to mark 'eligible' images for deletion from the Sequoia hard drive.

2.2.7 DICOM Media Interchange Real-World Activities

The Sequoia AE supports the DICOM MOD, DVD-R and CD-R Media Interchange. The supported MO disk formats Sequoia currently can write are 128MB, 230MB, 540MB, and 640MB. Users can modify/delete exams on MO but not on DVD/CD. But DVD/CD can be written in multiple sessions. Note that Sequoia can only read studies that were generated from Aspen or Sequoia systems – it cannot read from other vendors' disks.

3. AE Specifications

The following specifications apply to the AE as depicted in Figure 2-1.

3.1 Sequoia AE Specification

The Sequoia AE provides conformance to the following DICOM Service SOP Classes as an SCU:

Table 3-1. Supported SOP Classes

Service SOP Class Name	SOP Class UID
Verification	1.2.840.10008.1.1
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9
Basic Color Print Management Meta	1.2.840.10008.5.1.1.18
Storage Commitment Push Model	1.2.840.10008.1.20.1
Modality Worklist Information Model - FIND	1.2.840.10008.5.1.4.31
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33
Structured Report (Acuson)	1.2.840.10008.5.1.4.1.1.88.3*

*Note – This SOP Class Name is a private Structure Reporting (SR) SOP Class used only by the Acuson Sequoia and Aspen ultrasound platforms. This SR SOP Class was implemented before the official DICOM standard's Structure Reporting was finalized. At the time of implementation, the DICOM Standard root ID was incorrectly used instead of the Acuson root ID. Currently the DICOM standard does not use this specific SOP Class UID. The Acuson Sequoia and Aspen ultrasound platform has not yet changed the SR SOP Class ID due to backwards compatibility issues for existing customer studies.

3.1.1 Association Establishment Policies

3.1.1.1 General

The Siemens Acuson Sequoia system uses TCP/IP. The Maximum Length PDU negotiation is included in all association establishment requests. The maximum length PDU offered for an association initiated by Sequoia is 28672 Kbytes. However if the receiver negotiates a lower value then the Sequoia will use the lower value. Note that the receiver must negotiate at least a minimum of 64 Kbytes.

3.1.1.2 Number of Associations

The system uses one association for all types of transactions. The system does not handle multiple associations. All Associations are serial and do not overlap.

3.1.1.3 Asynchronous Nature

All associations use the default synchronous mode of operation. Asynchronous Operations Window negotiations are not supported on the Sequoia.

3.1.1.4 Implementation Identifying Information

Implementation Class UID: "1.2.840.113680.1.103.11" (See below)

Implementation Version Name: "S_12.2"

Siemens has provided registration for all Siemens Medical Systems Groups. The unique Class UID for Acuson products is defined as: "1.2.840.113680"

Where the interpretation is:

- 1. = International Standards Organization (ISO)
- 2. = ANSI member body
- 840. = Country Code (United States)
- 113680 = ANSI Registered number assigned to Acuson products
- 1.103.11= Merge toolkit version

3.1.1.5 Calling and Called AE Titles

The SCU Calling AE Title is pre-configured at the installation time to be:

- SEQUOIA_serial#

This is modifiable in the Sequoia configuration if necessary.

The “Called AE Title” is used by a SCP. This Sequoia release does not contain a SCP, except in its role reversal in the Storage Commitment SOP Class. A calling AE Title for a DICOM device can only be defined once and cannot be repeated on another DICOM device. In addition, when defining an associated name (hostname) for the DICOM device, this too can only be used once. The name of the device is not related to DICOM but is used internally by the Sequoia system.

3.1.2 Association Initiation by Real-World Activities

3.1.2.1 Real World Activity – Verification

The Sequoia is capable of supporting Verification service class as an SCU and SCP. Verification can be initiated in the Network Configuration window under the SUI menu.

3.1.2.1.1. Proposed Presentation Contexts – Verification

The Sequoia will propose Presentation context as shown in the following table:

Table 3-2. Verification Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU / SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Little Endian	1.2.840.10008.1.2.2		

3.1.2.2 Real World Activity – Store

When images are transferred to a DICOM Store SCP, the system establishes an association between the Sequoia AE and the identified DICOM device (i.e. Network Archive Server, Workstation Server).

The Sequoia system can be configured to send studies in one of the following ways:

- 1. In-Progress
- 2. On Study Close
- 3. Study Util (Bulk Store)

When studies are sent using “In-Progress”, individual images are sent to the store device as they are acquired. In the “On Study Close” all images are sent at the end of the study. Finally the Study Util Bulk Store is used to store one or more studies from a list of studies.

3.1.2.2.1. Proposed Presentation Context

The following Presentation Context(s) is presented to the SCP in an A-Associate request for DIMSE C-STORE storage services. The storage services utilize C-STORE services, whose parameters are defined in PS 3.7 (Table 9.1-1). The following Presentation Context applies to all three Sequoia store modes:

Table 3-3. Store Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	RLE Lossless	1.2.840.10008.1.2.5	SCU	None
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	JPEG Baseline	1.2.840.10008.1.2.4.50	SCU	None
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Structured Report (Private)	1.2.840.10008.5.1.4.1.1.88.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

The Sequoia system always acts as an SCU and is the client in a client-server model. The system will negotiate associations in the following order: New US IOD, Retired US IOD, and Secondary Capture.

Sequoia sends SOP class UID and transfer syntax UID pairs to negotiate for supported presentation contexts in the following method:

SOP class UID 1 and Transfer Syntax UID 1
 SOP class UID 1 and Transfer Syntax UID 2
 SOP class UID 2 and Transfer Syntax UID 1
 ...

This may pose problems to servers that can only recognize the following method of grouping:

SOP class UID 1 and Transfer Syntax UID 1, Transfer Syntax UID 2
SOP class UID 2 and Transfer Syntax UID 1, ...

3.1.2.2.2. Photometric Interpretation

Photometric Interpretation (color mode of the pixel image data) is not a negotiable parameter in DICOM 3.0. This implementation exports color images in RGB mode and grayscale images in Monochrome2 if the peer AE accepts only uncompressed Implicit VR Little Endian transfer syntax. It is also possible to manually configure the ultrasound system to export color images as MONOCHROME2. This is done by enabling the Grey Store service in the Network Configuration menu (SUI).

If the peer AE accepts either RLE or JPEG compression transfer syntax, images are exported in a YBR color mode (see Table 3-4).

Table 3-4. Photometric Interpretation of Exported Images

Ultrasound Image SOP Class UID	Transfer Syntax and UID	Image Content	Photometric Interpretation
Single-frame: 1.2.840.10008.5.1.4.1.1.6.1 1.2.840.10008.5.1.4.1.1.6 1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian 1.2.840.10008.1.2	B/W	MONOCHROME2
Multi-frame: 1.2.840.10008.5.1.4.1.1.3.1 1.2.840.10008.5.1.4.1.1.3		Color	RGB
Single-frame: 1.2.840.10008.5.1.4.1.1.6.1	RLE Lossless Compression 1.2.840.10008.1.2.5	B/W or Color	YBR_FULL
Multi-frame: 1.2.840.10008.5.1.4.1.1.3.1	JPEG Baseline Compression 1.2.840.10008.1.2.4.50	B/W or Color	YBR_FULL_422

3.1.2.2.3. Storage SOP Classes: DICOM IOD Specification

This implementation uses DICOM 3.0 Part 3 as the DICOM Image IOD specification. All Type 1 and 2 elements specified in the DICOM 3.0 standard are encoded and exported. Some Type 3, 1C and 2C elements are also exported.

The following table denotes the attributes included in the Ultrasound Image Object as implemented on the Sequoia. Attributes not listed are not used.

Table 3-5. US Image and US Multiframe Image IOD Attributes

Module	Attribute	Tag	Notes
Patient	Patient Name	(0010,0010)	From MWL or user input at Sequoia Begin Screen – First, Last, Prefix, & Suffix fields. If no name is available, the default value is “Unknown” but note that the Begin Screen shows the field as empty.

Module	Attribute	Tag	Notes
	Patient ID	(0010,0020)	From MWL or user input at Sequoia Begin Screen – Patient ID field. Default is Snnnnn.xxxxxxxx where nnnnn is system serial number and xxxxxxxx is a Unix time stamp.
	Patient's Birth Date	(0010,0030)	From MWL or user input at Sequoia Begin Screen – DOB field. Default is NULL.
	Patient Sex	(0010,0040)	From MWL or user input at Sequoia Begin Screen – Sex field. M = Male, F = Female. Default is "O".
	Other Patient Ids	(0010,1000)	From MWL or user input at Sequoia Begin Screen – SSN field. Default is NULL.
	Patient Comments	(0010,4000)	From MWL or user input at Sequoia Begin Screen – Comment field. Default is NULL.
General Study	Study Instance UID	(0020,000D)	From MWL or created by Sequoia
	Study Date	(0008,0020)	The date when the Sequoia was entered into the Begin Screen.
	Study Time	(0008,0030)	The time when the Sequoia was entered into the Begin Screen
	Referring Physician's Name	(0008,0090)	From MWL or user input at Sequoia Begin Screen – Referring Physician field. Default is NULL.
	Study ID	(0020,0010)	Sequoia Begin Screen – Value is set to the Study Type selected.
	Accession Number	(0008,0050)	From MWL or user input at Sequoia Begin Screen – Accession Field. Default is NULL.
	Study Description	(0008,1030)	From MWL or user input at Sequoia Begin Screen – Value is set to the Study Type selected for the study.
	Name of Physician(s) Reading Study	(0008,1060)	From MWL or user input at Sequoia Begin Screen – Diagnosing Physician field. Default is NULL.
	Patient's Size	(0010,1020)	From MWL or user input at Sequoia Begin Screen – Height field. Default is NULL.
	Patient's Weight	(0010,1030)	From MWL or user input at Sequoia Begin Screen – Weight field. Default is NULL.
General Series	Modality	(0008,0060)	Set to "US"
	Series Instance UID	(0020,000E)	Created by Sequoia
	Series Number	(0020,0011)	Set to "1"
	Operator Name	(0008,1070)	Sequoia Begin Screen – Sonographer field. Default is NULL.
	Requested Procedure ID	(0040,1001)	From MWL or Sequoia sets value to NULL
	Scheduled Procedure Step Description	(0040,0007)	Value set to NULL
	Scheduled Procedure Step ID	(0040,0009)	Value set to NULL

Module	Attribute	Tag	Notes
	Performed Procedure Step Start Date	(0040,0244)	The date when the study was closed.
	Performed Procedure Step Start Time	(0040,0245)	The time when the study was closed.
	Performed Procedure Step ID	(0040,0253)	The value will be the same as the Study Description tag (0008,1030).
	Performed Procedure Step Description	(0040,0254)	The value will be the same as the Study Description tag (0008,1030).
General Equipment	Manufacturer	(0008,0070)	Set to "ACUSON"
	Institution Name	(0008,0080)	From MWL or user input at Sequoia Setup (Screen Options) – Institution field. Default is NULL.
	Station Name	(0008,1010)	Sequoia Begin Screen – Machine ID. Default is NULL.
	Institutional Department Name	(0008,1040)	Sequoia Begin Screen – Department field. Default is NULL.
	Manufacturer's Model Name	(0008,1090)	Set to "SEQUOIA"
	Device Serial Number	(0018,1000)	Set to Sequoia's serial number.
	Software Versions	(0018,1020)	Set to "12.2"
General Image	Image Number	(0020,0013)	Image number in study (1 – n).
	Patient Orientation	(0020,0020)	Set to NULL.
	Image Date	(0008,0023)	Date the image was captured.
	Image Time	(0008,0033)	Time the image was captured.
	Images in Acquisition	(0020,1002)	Number of images that resulted from the study (1-n).
	Lossy Image Compression	(0028,2110)	Set to "00" for single-frame images, "01" for multi-frame images.
Image Pixel	Samples per Pixel	(0028,0002)	1 = MONOCHROME2, 3 = RGB or YBR_FULL
	Photometric Interpretation	(0028,0004)	Set to the following: RGB = Uncompressed color images (single or multi-frame), MONOCHROME2 = Uncompressed b/w images (single - or multi-frame), YBR_FULL = Compressed single-frame images (color or b/w), YBR_FULL_422 = Compressed multi-frame images (color or b/w)

Module	Attribute	Tag	Notes
	Rows	(0028,0010)	Set to 480 for full size single- or multiframe images and 240 for ¼ size single-frame images only. Set to 456 for condense screen full size single- or multiframe images and 228 for condense screen ¼ size single-frame images only. (NTSC) Set to 576 for full size single- or multiframe images and 287 for ¼ size single-frame images. Set to 547 for condense screen full size single- or multiframe images and 287 for condense screen ¼ size single-frame images. (PAL)
	Columns	(0028,0011)	Set to 640 for full size single- or multiframe images and 320 for ¼ size single-frame images. Set to 576 for condense screen full size single- or multiframe images and 274 for condense screen ¼ size single-frame images. (NTSC) Set to 768 for full size single- or multiframe images and 384 for ¼ size single-frame images. Set to 692 for condense screen full size single- or multiframe images and 346 for condense screen ¼ size single-frame images. (PAL)
	Bits Allocated	(0028,0100)	Set to 8
	Bits Stored	(0028,0101)	Set to 8
	High Bit	(0028,0102)	Set to 7
	Pixel Representation	(0028,0103)	Set to 0000H = Unsigned integer
	Pixel Data	(7FE0,0010)	
	Planar Configuration	(0028,0006)	Indicates whether the pixel data are sent color-by-plane or color-by-pixel. Required if Samples per Pixel (0028,0002) has a value greater than 1. Enumerated values are: 0000H = Color-by-pixel 0001H = Color-by-plane Sequoia sets to: 0000H for multi-frame images, 0001H for single-frame images.
Multi-frame	Number of frames	(0028,0008)	
	Frame Increment Pointer	(0028,0009)	Set to (0018,1065)
CINE	Start Trim	(0008,2142)	The frame number of the first frame of the multi-frame image to be displayed.
	Stop Trim	(0008,2143)	The frame number of the last frame of a multi-frame image to be displayed.

Module	Attribute	Tag	Notes
	Frame Time Vector	(0018,1065)	An array which contains the real time increments (in msec) between frames for a multi-frame image.
US Region Calibration	Sequence of Ultrasound Regions	(0018,6011)	
	>Region Location Min x_0	(0018,6018)	
	>Region Location Min y_0	(0018,601A)	
	>Region Location Max x_1	(0018,601C)	
	>Region Location Max y_1	(0018,601E)	
	>Physical Units X Direction	(0018,6024)	Physical units of the dimensions of the region. Applicable values are: 0000H = None 0003H = cm 0004H = seconds 0007H = cm/seconds
	>Physical Units Y Direction	(0018,6026)	Physical units of the dimensions of the region. Applicable values are: 0000H = None 0003H = cm 0004H = seconds 0007H = cm/seconds
	>Physical Delta X	(0018,602C)	
	>Physical Delta Y	(0018,602E)	
	>Reference Pixel x_0	(0018,6020)	
	>Reference Pixel y_0	(0018,6022)	
	>Ref. Pixel Physical Value X	(0018,6028)	
	>Ref. Pixel Physical Value Y	(0018,602A)	
	>Region Spatial Format	(0018,6012)	The spatial organization of the data within the region. Possible values: 0000H = None 0001H = 2-D (tissue or flow) 0002H = M-Mode (tissue or flow) 0003H = Spectral (CW or PW Doppler) 0004H = Wave form (physiological traces, Doppler traces,...) 0005H = Graphics

Module	Attribute	Tag	Notes
	>Region Data Type	(0018,6014)	The type of data within the region. Possible values: 0000H = None 0001H = Tissue 0002H = Color Flow 0003H = PW Spectral Doppler 0004H = CW Spectra Doppler 0005H = Doppler Mean Trace 0006H = Doppler Mode Trace 0007H = Doppler Max Trace 0008H = Volume Trace 0009H = d(volume)/dt Trace 000AH = ECG Trace 000BH = Pulse Trace 000CH = Phonocardiogram Trace 000DH = Gray bar 000EH = Color bar 000FH = Integrated Backscatter 0010H = Area Trace 0011H = d(area)/dt 0012H = Other Physiological (Amplitude vs. Time) input
	>Region Flags	(0018,6016)	Flags used for special handling of the region. Bit 0 – Transparency: 1 = Transparent 0 = Opaque Bit 1 – Scaling Protection: 1 = Protected 0 = Not Protected Bit 2 – Doppler Scale Type 1 = Frequency 0 = Velocity
	>Doppler Correction Angle	(0018,6034)	
	>Doppler Sample Volume X Position	(0018,6038)	
	>Doppler Sample Volume Y Position	(0018,603A)	
	>TM-Line Position x_0	(0018,603C)	
	>TM-Line Position Y_0	(0018,603E)	
	>TM-Line Position x_1	(0018,6040)	
	>TM-Line Position Y_1	(0018,6042)	

Module	Attribute	Tag	Notes
US Image	Image Type	(0008,0008)	This tag has four values associated with it. The first two values are set as follows: The First value is "ORIGINAL\PRIMARY" if the image is not a recaptured image. The Second value is "DERIVED\PRIMARY" if the image is a ¼ size rendition of the original full size image. "DERIVED\SECONDARY" if the image is a recaptured image. The Third value is set to NULL. The Fourth value is constructed as a bit map to allow for a description of multi-mode displays. In using this bit map, the sum of the values of the various modalities will unambiguously determine the constituent mode displays: 0001 = 2-D 0002 = M-MODE 0004 = CW DOPPLER 0008 = PW DOPPLER 0010 = COLOR DOPPLER 0020 = COLOR M-MODE 0040 = 3-D
	Stage Name	(0008,2120)	A Stage is a particular time interval of a protocol during which a set of images are collected. The names can be free form text. Recommended text for Stress Echo stage names are: PRE_EXERCISE POST-EXERCISE PEAK-EXERCISE RECOVERY BASELINE LOW DOSE PEAK DOSE
	Stage Number	(0008,2122)	A number that identifies the Stage. Stage numbers start at one.
	Number of Stages	(0008,2124)	Number of Stages in this protocol. Required if image was acquired in a Stage protocol
	View Number	(0008,2128)	A number that identifies the View. View numbers start at one.

Module	Attribute	Tag	Notes
	Number of Event Timers	(0008,2129)	Number of Event Timers used at the time of acquisition of a multi-frame image
	Number of Views in Stage	(0008,212A)	Number of views in this stage. Required if image was acquired in a Staged Protocol
	Event Elapsed Time(s)	(0008,2130)	An array of values associated with each Event Timers. Units in milliseconds.
	Event Timer Name(s)	(0008,2132)	Name(s) that identifies the Event Timer(s).
	Trigger Time	(0018,1060)	Time interval measured in msec from the start of the R-wave to the beginning of data taking.
	Heart Rate	(0018,1088)	Beats per minute
	Transducer Data	(0018,5010)	Set to model number of Transducer
	Transducer Type	(0018,6031)	Defined Terms: SECTOR_PHASED SECTOR_MECH SECTOR_ANNULAR LINEAR CURVED LINEAR SINGLE CRYSTAL SPLIT XTAL CWD IV_PHASED IV_ROT XTAL IV_ROT MIRROR ENDOCAV_PA ENDOCAV_MECH ENDOCAV_CLA ENDOCAV_AA ENDOCAV_LINEAR VECTOR_PHASED
SOP Common	SOP Class UID	(0008,0016)	Possible values are: 1.2.840.10008.5.1.4.1.1.6.1 Ultrasound Image Storage 1.2.840.10008.5.1.4.1.1.6 Ultrasound Image Storage (Retired) 1.2.840.10008.5.1.4.1.1.3.1 Ultrasound Multi-frame Image Storage 1.2.840.10008.5.1.4.1.1.3 Ultrasound Multi-frame Image Storage (Retired)
	SOP Instance UID	(0008,0018)	Created by Sequoia
	Specific Character Set	(0008,0005)	Set to "ISO_IR 100"

Sequoia sends a list of private elements in its Image IODs. These private elements include elements from the 0x7FDF group tags. The Sequoia Private elements that are transferred with the images are listed below in Table 3-6.

Table 3-6. Private Elements in the Image IOD

Module	Attribute	Tag	Notes
Sequoia Private Attributes	Private Creator Data Element	0009, 0021	ACUSON:1.2..840.1113680.1.0:0921
	View List	0009, 212A	
	> Private Creator Data Element	0009, 0021	ACUSON:1.2..840.1113680.1.0:0921
	> View Name	0009, 2120	
	Private Creator Data Element	7FDF, 0010	ACUSON:1.2..840.1113680.1.0:7f10
	Private Creator Data Element	7FDF, 00FE	ACUSON:1.2..840.1113680.1.0:7ffe
	Lossy Compression Ratio	7FDF, 1000	
	Image Format	7FDF, 1001	
	Acuson Region Type	7FDF, 1002	
	Acuson Image Apex X	7FDF, 100B	
	Acuson Image Apex Y	7FDF, 100C	
	B-Color-On Flag	7FDF, 100D	
	Acuson Mechanical Apex X	7FDF, 100E	
	Acuson Mechanical Apex Y	7FDF, 100F	
	Acquisition Type:	7FDF, 1010	String value, e.g "3DCARDIOVIEW"
	Transformation Matrix Sequence	7FDF, 1018	
	Left angle	7FDF, 1020	
	Right angle	7FDF, 1022	
	Color Map Family	7FDF, 1024	
	Full Colormap.	7FDF, 1025	
	Color Invert	7FDF, 1026	
	Color Baseline	7FDF, 1027	
	CD Color Mix Points X1	7FDF, 1028	
	CD Color Mix Points Y1	7FDF, 1029	
	CD Color Mix Points X2	7FDF, 102a	
	CD Color Mix Points Y2	7FDF, 102b	
	Color Accent	7FDF, 102c	
	Persistence SQ	7FDF, 1030	
	> Persistence Mode	7FDF, 1031	
	> Persistence Coefficient Mode	7FDF, 1032	
	> Alpha coefficient	7FDF, 1033	
	> Gamma coefficient	7FDF, 1034	
	> Persistence Time Flag	7FDF, 1035	
	> Persistence adaptive flag	7FDF, 1036	
	> Persistence Frame Rate	7FDF, 1037	
	> Persistence ID	7FDF, 1038	
	Observation Date Time SQ	7FDF, 1040	
	Capture Type Name	7FDF, 1050	
	Capture Type Number	7FDF, 1052	
	Number of Capture Types	7FDF, 1054	

Module	Attribute	Tag	Notes
	CD Steering Angle	7FDF, 1060	Valid for linear transducers only.
	CD PRI	7FDF, 1061	Unit: microseconds
	CD Dynamic Range	7FDF, 1062	Floating point in dB
	CD Velocity Scale Min	7FDF, 1063	
	CD Velocity Scale Max	7FDF, 1064	
	CD Color Mode	7FDF, 1065	
	CD Frequency	7FDF, 1066	
	CD Balance	7FDF, 1067	Encoding index, not values. Index = 0,1,2 Value = -1,0,1
	CD Delta	7FDF, 1068	
	CD Pan Box Min X0	7FDF, 1069	
	CD Pan Box Min Y0	7FDF, 106a	
	CD Pan Box Min X1	7FDF, 106b	
	CD Pan Box Min Y1	7FDF, 106c	
	CPS Map Type	7FDF, 106d	
	CPS Map Data	7FDF, 106e	
	CPS Balance Setting	7FDF, 106f	Encoding index, not values. Index = 0,1,2 Value = -1,0,1
	3DCard Step Angle	7FDF, 1070	Angle in degrees: 3 or 5.
	3DCard Xdcr Angle	7FDF, 1071	Angle in degrees in range 0-180.
	B-mode Frequency	7FDF, 1072	
	B-mode Dynamic Range	7FDF, 1073	Float value in dB
	B-mode Frame Rate	7FDF, 1074	The acoustic frame rate as displayed on the screen.
	B-mode Space Time	7FDF, 1075	
	B-mode Persistence	7FDF, 1076	
	B-mode Display Depth Start	7FDF, 1077	
	B-mode Display Depth End	7FDF, 1078	
	B-mode Res Mode	7FDF, 1079	
	B-mode Preset Application	7FDF, 107a	
	Image Spec Name	7FDF, 107b	
	B Preset Image Look	7FDF, 107c	
	B-mode Post Processing	7FDF, 107d	
	B Edge	7FDF, 107e	
	B Delta	7FDF, 107f	
	B-mode 1D Post Processing Curve	7FDF, 1080	The B-mode 1-D post processing map should be no larger than 256 x-y entries. Each x-y value is between 0 and 255
	B-mode Delta (ECRI) Map Diagonal	7FDF, 1081	Map is stored as byte stream.
	Bytes Per Timestamp	7FDF, 1082	Number of bytes per timestamp (for all timestamps): 64-bit => 8 bytes

Module	Attribute	Tag	Notes
	Microseconds in unit timestamp	7FDF, 1083	Timestamps are in unit of 20 microseconds
	Start Stopwatch Timestamp	7FDF, 1084	Only stored if the stopwatch has been used in this study. 64-bit timestamp value.
	Acoustic Frame Timestamp	7FDF, 1085	Time corresponding to the end of ultrasound data collection at the end of each acoustic frame.
	R-Wave Timestamp	7FDF, 1086	The absolute 64-bit timestamp of R-Wave events
	Last Destruction Timestamp	7FDF, 1087	64 bit timestamp. Only stored if there has been a destruction event in this study. Destruction events are defined as: mode transitions; transmit power changes; trigger masks indicating destruction frames have been fired.
	Pixels Per Second	7FDF, 1088	
	ECG Reference Timestamp	7FDF, 1089	
	ECG Sampling Interval (milliseconds)	7FDF, 108a	
	ECG Sample Count	7FDF, 108b	
	ECG Sample Size	7FDF, 108c	
	ECG Data Value	7FDF, 108d	
	Contrast/Active Image Indicator	7FDF, 108e	Integer type binary flag. For dual-non-linear; upside only. 0: left side; 1 right side.
	Live Dual Mode Indicator	7FDF, 108f	Integer type binary flag. For dual-non-linear; upside only.
	3DCard Clipset ID	7FDF, 1090	
	3DCard HRWave Min	7FDF, 1091	
	3DCard HRWave Max	7FDF, 1092	
	Perspective Capture Type	7FDF, 1093	
	...		
	Trigger Mask.	7FDF, 10F1	
	Study Directory	7FDF, 10F2	
	Last Modify Date	7FDF, 10F3	
	Last Modify Time	7FDF, 10F4	
	Teaching Study	7FDF, 10F5	
	Series Base UID	7FDF, 10F6	
	Data Padding	7FDF, FE00	

If the peer application does not support transfer of US Image then the single frame image is transferred as Secondary Capture image. US Multiframe images are not transferred as Secondary Capture. The following table describes the Secondary Capture IOD used by Sequoia to transfer static image.

Table 3-7. Secondary Capture Image IOD Attributes

Module	Attribute	Tag	Notes
Patient	Patient Name	(0010,0010)	From MWL or user input at Sequoia Begin Screen – First, Last, Prefix, & Suffix fields. If no name is available, the default value is “Unknown” but note that the Begin Screen shows the field as empty.
	Patient ID	(0010,0020)	From MWL or user input at Sequoia Begin Screen – Patient ID field. Default is Snnnnn.xxxxxxxxxx where nnnnn is system serial number and xxxxxxxx is a Unix time stamp.
	Patient's Birth Date	(0010,0030)	From MWL or user input at Sequoia Begin Screen – DOB field. Default is NULL.
	Patient Sex	(0010,0040)	From MWL or user input at Sequoia Begin Screen – Sex field. M = Male, F = Female. Default is “O”.
	Other Patient Ids	(0010,1000)	From MWL or user input at Sequoia Begin Screen – SSN field. Default is NULL.
	Patient Comments	(0010,4000)	From MWL or user input at Sequoia Begin Screen – Comment field. Default is NULL.
General Study	Study Instance UID	(0020,000D)	From MWL or created by Sequoia
	Study Date	(0008,0020)	The date when the Sequoia was entered into the Begin Screen.
	Study Time	(0008,0030)	The time when the Sequoia was entered into the Begin Screen
	Referring Physician's Name	(0008,0090)	From MWL or user input at Sequoia Begin Screen – Referring Physician field. Default is NULL.
	Study ID	(0020,0010)	Sequoia Begin Screen – Value is set to the Study Type selected.
	Accession Number	(0008,0050)	From MWL or user input at Sequoia Begin Screen – Accession Field. Default is NULL.
	Study Description	(0008,1030)	From MWL or user input at Sequoia Begin Screen – Value is set to the Study Type selected for the study.
	Name of Physician(s) Reading Study	(0008,1060)	From MWL or user input at Sequoia Begin Screen – Diagnosing Physician field. Default is NULL.
	Patient's Size	(0010,1020)	From MWL or user input at Sequoia Begin Screen – Height field. Default is NULL.
	Patient's Weight	(0010,1030)	From MWL or user input at Sequoia Begin Screen – Weight field. Default is NULL.
General Series	Modality	(0008,0060)	Set to “US”
	Series Instance UID	(0020,000E)	Created by Sequoia
	Series Number	(0020,0011)	Set to “1”

Module	Attribute	Tag	Notes
	Operator Name	(0008,1070)	Sequoia Begin Screen – Sonographer field. Default is NULL.
	Requested Procedure ID	(0040,1001)	From MWL or Sequoia sets value to NULL
	Scheduled Procedure Step Description	(0040,0007)	Value set to NULL
	Scheduled Procedure Step ID	(0040,0009)	Value set to NULL
	Performed Procedure Step Start Date	(0040,0244)	The date when the study was closed.
	Performed Procedure Step Start Time	(0040,0245)	The time when the study was closed.
	Performed Procedure Step ID	(0040,0253)	The value will be the same as the Study Description tag (0008,1030).
	Performed Procedure Step Description	(0040,0254)	The value will be the same as the Study Description tag (0008,1030).
General Equipment	Manufacturer	(0008,0070)	Set to "ACUSON"
	Institution Name	(0008,0080)	From MWL or user input at Sequoia Setup (Screen Options) – Institution field. Default is NULL.
	Station Name	(0008,1010)	Sequoia Begin Screen – Machine ID. Default is NULL.
	Institutional Department Name	(0008,1040)	Sequoia Begin Screen – Department field. Default is NULL.
	Manufacturer's Model Name	(0008,1090)	Set to "SEQUOIA"
	Device Serial Number	(0018,1000)	Set to Sequoia's serial number.
	Software Versions	(0018,1020)	Set to "12.2"
SC Equipment	Conversion Type	(0008,0064)	Set to "DV". The pixel data is derived from the actual image captured on Sequoia.

Module	Attribute	Tag	Notes
General Image	Image Type	(0008,0008)	This tag has four values associated with it. The first two values are set as follows: The First value is "ORIGINAL\PRIMARY" if the image is not a recaptured image. The Second value is "DERIVED\PRIMARY" if the image is a ¼ size rendition of the original full size image. "DERIVED\SECONDARY" if the image is a recaptured image. The Third value is set to NULL. The Fourth value is constructed as a bit map to allow for a description of multi-mode displays. In using this bit map, the sum of the values of the various modalities will unambiguously determine the constituent mode displays: 0001 = 2-D 0002 = M-MODE 0004 = CW DOPPLER 0008 = PW DOPPLER 0010 = COLOR DOPPLER 0020 = COLOR M-MODE 0040 = 3-D
	Image Number	(0020,0013)	Image number in study (1 – n).
	Patient Orientation	(0020,0020)	Set to NULL.
	Image Date	(0008,0023)	Date the image was captured.
	Image Time	(0008,0033)	Time the image was captured.
	Images in Acquisition	(0020,1002)	Number of images that resulted from the study (1-n).
Image Pixel	Samples per Pixel	(0028,0002)	1 = MONOCHROME2, 3 = RGB
	Photometric Interpretation	(0028,0004)	Set to the following: RGB = Uncompressed color images (single or multi-frame), MONOCHROME2 = Uncompressed b/w images (single - or multi-frame)

Module	Attribute	Tag	Notes
	Rows	(0028,0010)	Set to 480 for full size single- or multiframe images and 240 for ¼ size single-frame images only. Set to 456 for condense screen full size single- or multiframe images and 228 for condense screen ¼ size single-frame images only. (NTSC) Set to 576 for full size single- or multiframe images and 287 for ¼ size single-frame images. Set to 547 for condense screen full size single- or multiframe images and 287 for condense screen ¼ size single-frame images. (PAL)
	Columns	(0028,0011)	Set to 640 for full size single- or multiframe images and 320 for ¼ size single-frame images. Set to 576 for condense screen full size single- or multiframe images and 274 for condense screen ¼ size single-frame images. (NTSC) Set to 768 for full size single- or multiframe images and 384 for ¼ size single-frame images. Set to 692 for condense screen full size single- or multiframe images and 346 for condense screen ¼ size single-frame images. (PAL)
	Bits Allocated	(0028,0100)	Set to 8
	Bits Stored	(0028,0101)	Set to 8
	High Bit	(0028,0102)	Set to 7
	Pixel Representation	(0028,0103)	Set to 0000H = Unsigned integer
	Pixel Data	(7FE0,0010)	
SOP Common	SOP Class UID	(0008,0016)	Set to SC SOP class UID "1.2.840.10008.5.1.4.1.1.7"
	SOP Instance UID	(0008,0018)	Created by Sequoia
	Specific Character Set	(0008,0005)	Set to "ISO_IR 100"

Sequoia sends measurement data along with the image data to a DICOM storage server using DICOM Comprehensive SR. If the DICOM server is configured as KinetDx server, Sequoia transfers measurements using private SR. The following table describes the Comprehensive SR IOD used by Sequoia to transfer measurement data.

Table 3-8. Comprehensive Structured Report IOD Attributes

Module	Attribute	Tag	Notes
Patient Module	Patient's Name	(0010,0010)	From MWL or user input at Sequoia Begin Screen – First, Last, Prefix, & Suffix fields. If no name is available, the default value is "Unknown" but note that the Begin Screen shows the field as empty.

Module	Attribute	Tag	Notes
	Patient ID	(0010,0020)	From MWL or user input at Sequoia Begin Screen – Patient ID field. Default is Snnnnn.xxxxxxxxxx where nnnnn is system serial number and xxxxxxxx is a Unix time stamp.
	Patient's Birthdate	(0010,0030)	From MWL or user input at Sequoia Begin Screen – DOB field. Default is NULL.
	Patient's Sex	(0010,0040)	From MWL or user input at Sequoia Begin Screen – Sex field. M = Male, F = Female. Default is "O".
	Other Patient Ids	(0010,1000)	From MWL or user input at Sequoia Begin Screen – SSN field. Default is NULL.
	Patient's Size	(0010,1020)	From MWL or user input at Sequoia Begin Screen – Height field. Default is NULL.
	Patient's Weight	(0010,1030)	From MWL or user input at Sequoia Begin Screen – Weight field. Default is NULL.
	Patient's Age	(0010,1010)	From MWL or user input at Sequoia Begin Screen – Age field or calculated from Patient's Birthday field on Begin screen. Default is NULL.
	Patient Comments	(0010,4000)	From MWL or user input at Sequoia Begin Screen – Comment field. Default is NULL.
Common Study Module	Study Instance UID	(0020,000D)	From MWL or created by Sequoia [Note: SR is only created when this field is 61 characters or less.]
	Study Date	(0008,0020)	The date when the Sequoia was entered into the Begin Screen.
	Study Time	(0008,0030)	The time when the Sequoia was entered into the Begin Screen
	Referring Physician's Name	(0008,0090)	From MWL or user input at Sequoia Begin Screen – Referring Physician field. Default is NULL.
	Name of Physician(s) Reading Study	(0008,1060)	From MWL or user input at Sequoia Begin Screen – Diagnosing Physician field. Default is NULL.
	Study ID	(0020,0010)	Sequoia Begin Screen – Value is set to the Study Type selected.
	Study Description	(0008,1030)	From MWL or user input at Sequoia Begin Screen – Value is set to the Study Type selected for the study.
	Accession Number	(0008,0050)	From MWL or user input at Sequoia Begin Screen – Accession Field. Default is NULL.
SOP Common Module	SOP Class UID	(0080,0016)	1.2.840.10008.5.1.4.1.1.88.33 for Comprehensive SR
	SOP Instance UID	(0008, 0018)	Sequoia creates unique SOP Instance

Module	Attribute	Tag	Notes
	Specific Character Set	(0008,0005)	ISO_IR_100
SR Document Series Module	Modality	(0008,0060)	Set to "SR"
	Series Instance UID	(0020,000E)	Unique Identifier for Series, generated by Sequoia.
	Series Number	(0020,0011)	Set to "4"
	Operator Name	(0008,1070)	Sequoia Begin Screen – Sonographer field. Default is NULL.
	Referenced Performed Procedure Step Sequence	(0008,1111)	Value set to NULL.
General Equipment Module	Manufacturer	(0008,0070)	Set to "Siemens Medical Solutions"
	Institution Name	(0008,0080)	From MWL or user input at Sequoia Setup (Screen Options) – Institution field. Default is NULL.
	Station Name	(0008,1010)	Sequoia Begin Screen – Machine ID. Default is NULL.
	Institutional Department Name	(0008,1040)	Sequoia Begin Screen – Department field. Default is NULL.
	Device Serial Number	(0018,1000)	Set to Sequoia's serial number.
	Software Versions	(0008,1020)	Set to "12.2"
	Manufacturer's Model Name	(0008,1090)	Set to "SEQUOIA"
SR Document General Module	Instance Number	(0020,0013)	Set to "1"
	Completion Flag	(0040,A491)	Set to "PARTIAL"
	Verification Flag	(0040,A493)	Set to "UNVERIFIED"
	Content Date	(0008,0023)	The date on Sequoia when document content creation started.
	Content Time	(0008,0033)	The time on Sequoia when document content creation started.
	Referenced Request Sequence	(0040,A370)	One item for each requested procedure
	>Accession Number	(0008,0050)	Copied from Accession Number in MWL Query
	>Study Instance UID	(0020,000D)	Study instance UID of current study (same as in images)
	>Referenced Study Sequence	(0008,1110)	Value set to NULL
	>Placer Order Number/Imaging Service Request	(0040,2016)	Copied from MWL
	>Filler Order Number/Imaging Service Request	(0040,2017)	Copied from MWL
	>Requested Procedure ID	(0040,1001)	Copied from Requested Procedure ID in MWL query
	>Requested Procedure Description	(0032,1060)	Copied from Requested Procedure Description in MWL query

Module	Attribute	Tag	Notes
	>Requested Procedure Code Sequence	(0032,1064)	Value set to NULL
	>Performed Procedure Code Sequence	(0040,A372)	Copied from Requested Procedure Code Sequence in MWL Query
SR Document Module	Value Type	(0040,A040)	CONTAINER
	Concept Name Code Sequence	(0040,A043)	Defines the DICOM SR templates to be used
	> Code Value	(0008,0100)	125000, DCM, OB-GYN Ultrasound Procedure Report
	> Coding Scheme Version	(0008,0103)	125001, DCM, Vascular Ultrasound Procedure Report
	> Code Meaning	(0008,0104)	125200, DCM, Adult Echocardiography Procedure Report
	Continuity of Content	(0040,A050)	SEPARATE
	Content Template Sequence	(0040,A504)	
	> Mapping Resource	(0008,0105)	DCMR (DICOM Content Mapping Resource)
	> Template Identifier	(0040,DB00)	5000 for OB/GYN Ultrasound Procedure Report
			5100 for Vascular Ultrasound Procedure Report
			5200 for Adult Echocardiography Procedure Report
	Content Sequence	(0040,A730)	See Appendix for "OB Gyn Ultrasound Procedure Report", "Vascular Ultrasound Procedure Report", or "Adult Echocardiography Procedure Report"

Table 3-9. Private Elements in the Comprehensive SR IOD

Module	Attribute	Tag	Notes
Sequoia Private Attributes	Private Creator Name	0021, 0010	Set to syngoDynamics_Reporting
	Private Creator Data	0021, 10AD	Byte stream

3.1.2.3 Real World Activity – Print

When print is initiated either by background (On Study Close/In Progress) or foreground (Study Util) printing, an association with the assigned DICOM Printer/Print Server is made.

3.1.2.3.1. Proposed Presentation Context to a Grayscale Printer

Table 3-10. Grayscale Print Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Basic Grayscale Print Management Meta SOP Class	1.2.840.10008.5.1.1.9	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table 3-11. Basic Grayscale Print Management Meta SOP Classes

SOP Class Name	SOP Class UID
Printer SOP Class	1.2.8.40.10008.5.1.1.16
Basic Film Session SOP Class	1.2.8.40.10008.5.1.1.1
Basic Film Box SOP Class	1.2.8.40.10008.5.1.1.2
Basic Grayscale Image Box SOP Class	1.2.8.40.10008.5.1.1.4

3.1.2.3.2. Printer SOP Class

Table 3-12. Printer SOP Class

Attribute Name	Attribute Tag	Range	Description
Printer Status	(2110,0010)	NORMAL, WARNING, FAILURE	Printer device status Note: Sequoia will generate a print error if this tag is not sent with a value of NORMAL
Printer Status Info	(2110,0020)		Additional information about Printer Status (2110,0010)
Printer Name	(2110,0030)		User defined name identifying the printer
Manufacturer	(0008,0070)		Manufacturer of the printer
Manufacturer Model Name	(0008,1090)		Manufacture's model number of the printer
Device Serial Number	(0018,1000)		Manufacture's serial number of the printer
Software Versions	(0018,1020)		Manufacture's designation of software version of the printer
Date Last Calibration	(0018,1200)		Date when the printer was last calibrated
Time Of Last Calibration	(0018,1201)		Time when the printer was last calibrated

Sequoia uses the following DIMSE Services for the Printer SOP Class:

N-GET – Request printer status and information

3.1.2.3.3. Basic Film Session SOP Class

Table 3-13. Basic Film Session SOP Class

Attribute Name	Attribute Tag	Range	Description
Number of Copies	(2000,0010)	1 to 99	Number of requested film copies
Print Priority	(2000,0020)	HIGH, MED, LOW	Set at configuration
Medium Type	(2000,0030)	PAPER BLUE FILM CLEAR FILM	Media used for hardcopy; may be further limited by printer/print server
Film Destination	(2000,0040)	PROCESSOR	May be further limited by printer/print server
Film Session Label	(2000,0050)	SEQUOIA IMAGE	

Sequoia uses the following DIMSE Services for the Basic Film Session SOP Class:

N-CREATE - Creates the Film Session

3.1.2.3.4. Basic Film Box SOP Class

Table 3-14. Basic Film Box SOP Class

Attribute Name	Attribute Tag	Range	Description
Image Display Format	(2010,0010)	STANDARD\1,1 STANDARD\1,2 STANDARD\2,1 STANDARD\2,2 STANDARD\2,3 STANDARD\3,2 STANDARD\3,3 STANDARD\3,4 STANDARD\3,5 STANDARD\4,3 STANDARD\4,4 STANDARD\4,5 STANDARD\4,6 STANDARD\5,3 STANDARD\5,4 STANDARD\5,6 STANDARD\6,4 STANDARD\6,5	May be further limited by printer/print server
Film Orientation	(2010,0040)	PORTRAIT LANDSCAPE	May be further limited by printer/print server
Film Size ID	(2010,0050)	8INX10IN 11INX14IN 14INX14IN 14INX17IN	May be further limited by printer/print server
Magnification Type	(2010,0060)	REPLICATE BILINEAR CUBIC NONE	Printer specific
Minimum Density	(2010,0120)	0 or higher	Printer specific
Maximum Density	(2010,0130)	350 or lower	Printer specific
Border Density	(2010,0100)	BLACK WHITE	
Empty Image Density	(2010,0110)	BLACK WHITE	
Trim	(2010,0140)	YES NO	

Sequoia uses the following DIMSE Services for the Basic Film Box SOP Class:

N-CREATE - Creates the Film Box

N-DELETE - Deletes the Film Box. Issued after each film is printed

N-ACTION - PRINT. Sent after each Film Box is filled or to force a print of partially filled Film Box

3.1.2.3.5. Basic Film Grayscale Image Box SOP Class

Table 3-15. Basic Film Grayscale Image Box SOP Class

Attribute Name	Attribute Tag	Range
Image Position	(2020,0010)	
Polarity	(2020,0020)	
Basic Grayscale Image Sequence	(2020,0110)	
>Samples Per Pixel	(0028,0002)	Set to 1
>Photometric Interpretation	(0028,0004)	Set to MONOCHROME2
>Rows	(0028,0010)	Set to 480 for full size single- or multiframe images and 240 for ¼ size single-frame images only. Set to 456 for condense screen full size single- or multiframe images and 228 for condense screen ¼ size single-frame images only. (NTSC) Set to 576 for full size single- or multiframe images and 287 for ¼ size single-frame images. Set to 547 for condense screen full size single- or multiframe images and 287 for condense screen ¼ size single-frame images. (PAL)
>Columns	(0028,0011)	Set to 640 for full size single- or multiframe images and 320 for ¼ size single-frame images. Set to 576 for condense screen full size single- or multiframe images and 274 for condense screen ¼ size single-frame images. (NTSC) Set to 768 for full size single- or multiframe images and 384 for ¼ size single-frame images. Set to 692 for condense screen full size single- or multiframe images and 346 for condense screen ¼ size single-frame images. (PAL)
>Pixel Aspect Ratio	(0028,0034)	Set to 1 \ 1
>Bits Allocated	(0028,0100)	Set to 8
>Bits Stored	(0028,0101)	Set to 8
>High Bit	(0028,0102)	Set to 7
>Pixel Representation	(0028,0103)	Set to 0000H = Unsigned integer
>Pixel Data	(7FE0,0010)	

Sequoia uses the following DIMSE Services for the Basic Grayscale Image Box SOP Class:

N-SET - Creates the individual images on the film.

3.1.2.3.6. Proposed Presentation Context to a Color Printer

Table 3-16. Color Print Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Basic Color Print Management Meta SOP Class	1.2.840.10008.5.1.1.18	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table 3-17. Basic Color Print Management Meta SOP Classes

SOP Class Name	SOP Class UID
Printer SOP Class	1.2.8.40.10008.5.1.1.16
Basic Film Session SOP Class	1.2.8.40.10008.5.1.1.1
Basic Film Box SOP Class	1.2.8.40.10008.5.1.1.2
Basic Color Image Box SOP Class	1.2.8.40.10008.5.1.1.4.1

3.1.2.3.7. Basic Film Color Image Box SOP Class

The Basic Color Image Box SOP Class makes identical use of the Printer SOP Class, Basic Film Session SOP Class and Basic Film Box SOP Class elements, which have been previously described for grayscale image printing. Therefore these will not be described again in this section on color printing. However, it should be noted that certain attributes, such as Medium Type, which is defined in the Basic Film Session SOP Class, are highly likely to require print/print server specific media.

Table 3-18. Basic Film Color Image Box SOP Class

Attribute Name	Attribute Tag	Range
Image Position	(2020,0010)	
Polarity	(2020,0020)	
Basic Color Image Sequence	(2020,0111)	
>Samples Per Pixel	(0028,0002)	Set to 3
>Photometric Interpretation	(0028,0004)	Set to RGB
>Planar Configuration	(0028,0006)	Set to 1
>Rows	(0028,0010)	Set to 480 for full size single- or multiframe images and 240 for ¼ size single-frame images only. Set to 456 for condense screen full size single- or multiframe images and 228 for condense screen ¼ size single-frame images only. (NTSC) Set to 576 for full size single- or multiframe images and 287 for ¼ size single-frame images. Set to 547 for condense screen full size single- or multiframe images and 287 for condense screen ¼ size single-frame images. (PAL)
>Columns	(0028,0011)	Set to 640 for full size single- or multiframe images and 320 for ¼ size single-frame images. Set to 576 for condense screen full size single- or multiframe images and 274 for condense screen ¼ size single-frame images. (NTSC) Set to 768 for full size single- or multiframe images and 384 for ¼ size single-frame images. Set to 692 for condense screen full size single- or multiframe images and 346 for condense screen ¼ size single-frame images. (PAL)
>Pixel Aspect Ratio	(0028,0034)	Set to 1 \ 1
>Bits Allocated	(0028,0100)	Set to 8
>Bits Stored	(0028,0101)	Set to 8
>High Bit	(0028,0102)	Set to 7
>Pixel Representation	(0028,0103)	Set to 0000H = Unsigned integer

Attribute Name	Attribute Tag	Range
>Pixel Data	(7FE0,0010)	

Sequoia uses the following DIMSE Services for the Basic Color Image Box SOP Class:

N-SET - Creates the individual images on the film.

3.1.2.4 Real World Activity – Worklist

A separate network association is established by the AE for each worklist query operation, with only one active query at a time. The association is closed at completion of the query.

3.1.2.4.1. Proposed Presentation Context

Table 3-19. Worklist Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Little Endian	1.2.840.10008.1.2.2		

The Sequoia system will always act as an SCU and be the client in a client-server model.

3.1.2.4.2. Modality Worklist Service SOP Class

The following table provides the list of attributes requested in the Modality Worklist Query:

Table 3-20. Modality Worklist Matching Key Attributes

Attribute Name	Tag	Match Type	Notes
Scheduled Procedure Step			
Scheduled Procedure Step Sequence	(0040,0100)	R	
>Scheduled Station AE title	(0040,0001)	R	The user may set the value of this attribute under the “Filter Worklist” setting located in the Worklist Server setup menu. Possible values are: YES = AE Title of Sequoia NO = NULL value

Attribute Name	Tag	Match Type	Notes
>Scheduled Procedure Step Start Date	(0040,0002)	R	From the Begin page screen, Sequoia always sets this attribute to today's date. In the Worklist query screen, the user is allowed to select from the following ranges: Today 3Days 1Week All Format of range: "yyyymmdd–yyyymmdd"
>Scheduled Procedure Step Start Time	(0040,0003)	R	Set to NULL value
>Modality	(0008,0060)	R	The user may set the value of this attribute under the "Send U/S Study Only" setting located in the Worklist Server setup menu. Possible values are: YES = "US" NO = Any (NULL value)
Accession Number	(0008,0050)	R	Maps to the Accession field in the Sequoia Begin Screen
Patient Identification			
Patient's Name	(0010,0010)	R	Maps to the Patient Name field in the Sequoia Begin Screen
Patient's ID	(0010,0020)	R	Maps to the Patient ID field in the Sequoia Begin Screen

Table 3-21. Modality Worklist Return Key Attributes

Attribute Name	Tag	Return Key Type	Notes
SOP Common			
Specific Character Set	(0008,0005)	1C	Sequoia ignores this attribute.
Scheduled Procedure Step			
Scheduled Procedure Step Sequence	(0040,0100)	1	
>Scheduled Station AE title	(0040,0001)	1	
>Scheduled Procedure Step Start Date	(0040,0002)	1	
>Scheduled Procedure Step Start Time	(0040,0003)	1	
>Modality	(0008,0060)	1	
>Scheduled Performing Physician's Name	(0040,0006)	2	
>Scheduled Procedure Step Description	(0040,0007)	1C	This attribute is mapped to Sequoia's "Study Type" field on the Begin page. Sequoia ships with a list of study types. The Study Type names can be customized so that RIS and the ultrasound system have the same list to match correctly.
>Scheduled Procedure Step ID	(0040,0009)	3	

Attribute Name	Tag	Return Key Type	Notes
>Comments on the Scheduled Procedure Step	(0040,0400)	3	Maps to the Comments field in the Sequoia Begin Screen
Requested Procedure			
Study Instance UID	(0020,000d)	1	
Requested Procedure ID	(0040,1001)	1	
Reason for Requested Procedure	(0040,1002)	3	Maps to the Indication field in the Sequoia Begin Screen
Requested Procedure Description	(0032,1060)	3	
Image Service Request			
Accession Number	(0008,0050)	2	Maps to the Accession field in the Sequoia Begin Screen
Referring Physician's Name	(0008,0090)	2	Maps to the Ref. Physician field in the Sequoia Begin Screen
Visit Identification			
Institution Name	(0008,0080)	3	Maps to the Institution field in Sequoia Setup (Screen Options)
Patient Identification			
Patient's Name	(0010,0010)	1	Maps to the Patient Name field in the Sequoia Begin Screen
Patient's ID	(0010,0020)	1	Maps to the Patient ID field in the Sequoia Begin Screen
Patient Other ID	(0010,1000)	3	Maps to the SSN field in the Sequoia Begin Screen
Patient Demographic			
Patient's Birth Date	(0010,0030)	2	Maps to the DOB field in the Sequoia Begin Screen
Patient Sex	(0010,0040)	3	Maps to the Sex field in the Sequoia Begin Screen
Patient Size	(0010,1020)	3	Maps to the Height field in the Sequoia Begin Screen
Patient Weight	(0010,1030)	2	Maps to the Weight field in the Sequoia Begin Screen
Patient Comments	(0010,4000)	3	Maps to the Comments field in the Sequoia Begin Screen if "Comments on the Scheduled Procedure Step (0040,0400)" is not present.
Last Menstrual Date	(0010,21D0)	3	
Study Read			
Name of Physician(s) Reading Study	(0008,1060)	3	Maps to the Diag. Physician field in the Sequoia Begin Screen.

3.1.2.5 Real World Activity – Modality Performed Procedure Step

3.1.2.5.1. Proposed Presentation Context

Table 3-22. MPPS Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Little Endian	1.2.840.10008.1.2.2		

3.1.2.5.2. Modality Performed Procedure Step Service SOP Class

When the Sequoia captures the 1st image in a study, the Sequoia will send a N-CREATE service request. When the study is ended, Sequoia will send a N-SET service request.

The following table provides the list of attributes provided in the Modality Performed Procedure Step:

Table 3-23. MPPS Information Model Attributes: N-CREATE Service Request
(Study Start with first image capture)

Description/Module	Tag	Value Description
Performed Procedure Step Relationship		
Scheduled Step Attribute Sequence	(0040,0270)	
>Study Instance UID	(0020,000D)	From MWL or created by Sequoia
>Referenced Study Sequence	(0008,1110)	Set to NULL
>Accession Number	(0008,0050)	From MWL or user input at Sequoia Begin Screen
>Requested Procedure ID	(0040,1001)	From MWL
>Requested Procedure Description	(0032,1060)	
>Scheduled Procedure Step ID	(0040,0009)	Empty
>Scheduled Procedure Description	(0040,0007)	Empty
>Scheduled Action Item Code Sequence	(0040,0008)	Set to NULL
Patient's Name	(0010,0010)	
Patient's ID	(0010,0020)	
Patient's Birth Date	(0010,0030)	
Patient Sex	(0010,0040)	
Referenced Patient Sequence	(0008,1120)	Set to NULL
Performed Procedure Step Information		
Performed Procedure Step ID	(0040,0253)	The value will be the same as the Study Description tag (0008,1030)
Performed Station AE Title	(0040,0241)	Set to Sequoia's AE Title

Description/Module	Tag	Value Description
Performed Station Name	(0040,0242)	Set to Sequoia's host name
Performed Location	(0040,0243)	Set to NULL
Performed Procedure Step Start Date	(0040,0244)	
Performed Procedure Step Start Time	(0040,0245)	
Performed Procedure Step Status	(0040,0252)	Set to "IN PROGRESS"
Performed Procedure Step Description	(0040,0254)	The value will be the same as the Study Description tag (0008,1030)
Performed Procedure Type Description	(0040,0255)	Set to NULL
Procedure Code Sequence	(0008,1032)	Set to NULL
Performed Procedure Step End Date	(0040,0250)	Set to NULL
Performed Procedure Step End Time	(0040,0251)	Set to NULL
Image Acquisition Results		
Modality	(0008,0060)	Set to "US"
Study ID	(0020,0010)	The value will be the same as the Study Description tag (0008,1030)
Performed Action Item Code Sequence	(0040,0260)	Set to NULL
Performed Series Sequence	(0040,0340)	Set to NULL

Table 3-24. MPPS Information Model Attributes: N-SET Service Request
(Study End)

Description/Module	Tag	Value Description
Performed Procedure Step Information		
Performed Procedure Step Status	(0040,0252)	Set to "COMPLETED"
Performed Procedure Step End Date	(0040,0250)	
Performed Procedure Step End Time	(0040,0251)	
Image Acquisition Results		
Performed Series Sequence	(0040,0340)	
>Performing Physician's Name	(0008,1050)	Set to NULL
>Protocol Name	(0018,1030)	The value will be the same as the Study Description tag (0008,1030)
>Operator's Name	(0008,1070)	
>Series Instance UID	(0020,000E)	
>Series Description	(0008,103E)	The value will be the same as the Study Description tag (0008,1030)
>Retrieve AE Title	(0008,0054)	Set to storage server's AE Title
>Referenced Image Sequence	(0008,1140)	One for each clip/image
>>Referenced SOP Class UID	(0008,1150)	
>>Referenced SOP Instance UID	(0008,1155)	
>Referenced Stand-alone SOP Sequence	(0040,0220)	One for SR Object
>>Referenced SOP Class UID	(0008,1150)	
>>Referenced SOP Instance UID	(0008,1155)	

3.1.2.6 Real World Activity – Storage Commitment

3.1.2.6.1. Proposed Presentation Context

Table 3-25. Commitment Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Storage Commitment Push Model	1.2.840.10008.1.20.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Explicit VR Little Endian	1.2.840.10008.1.2.2		

3.1.2.6.2. Storage Commitment Service SOP Class

The following table provides the list of attributes supported by the AE in the implementation of Storage Commitment SOP Class including N-ACTION, N-EVENT-REPORT, and File State attributes.

Table 3-26. Storage Commitment – Action Information

Action Type Name	Action Type ID	Attribute	Tag	Description
Request Storage Commitment	1	Transaction UID	(0008,1195)	Sequoia Generated UID
		Reference SOP Sequence	(0008,1199)	
		>Referenced SOP Class UID	(0008,1150)	SOP Class UID for each object stored
		>Referenced SOP Instance UID	(0008,1155)	SOP Instance UID for each object stored

Table 3-27. Storage Commitment – Event Report Information

Action Type Name	Action Type ID	Attribute	Tag	Description
Storage Commitment Request Successful	1	Transaction UID	(0008,1195)	
		Reference SOP Sequence	(0008,1199)	
		>Referenced SOP Class UID	(0008,1150)	
		>Referenced SOP Instance UID	(0008,1155)	
Storage Commitment Request Complete Failures Exist	2	Retrieve AE Title	(0008,0054)	
		Transaction UID	(0008,1195)	
		Reference SOP Sequence	(0008,1199)	
		>Referenced SOP Class UID	(0008,1150)	
		>Referenced SOP Instance UID	(0008,1155)	

Action Type Name	Action Type ID	Attribute	Tag	Description
		Failed SOP Sequence	(0008,1198)	
		>Referenced SOP Class UID	(0008,1150)	
		>Referenced SOP Instance UID	(0008,1155)	

3.1.2.7 Real World Activity – DICOM Media Interchange

The images that are stored on MO, DVD and CD follow the same DICOM Image IOD specification as implemented in the DICOM 3.0 standard, Part 3 (see Table 3-5).

3.1.2.7.1. Ultrasound Application Profile

Table 3-28. DICOM Ultrasound Application Profiles

Application Profile	Real-World Activity	Role
STD-US-ID-SF-MOD128	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-MF-MOD128	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-SF-MOD230	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-MF-MOD230	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-SF-MOD540	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-MF-MOD540	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-SF-MOD640	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-MF-MOD640	Create MO	FSC, [FSU*, FSR*]
STD-US-ID-SF-CDR	Create CD	FSC, FSR*
STD-US-ID-SF-DVD	Create DVD	FSC, FSR*
STD-US-ID-MF-CDR	Create CD	FSC, FSR*
STD-US-ID-MF-DVD	Create DVD	FSC, FSR*

Updater/Reader only applicable to Sequoia & Aspen systems

3.1.2.7.2. Proposed Presentation Context

Table 3-29. DICOM Media Interchange Presentation Context Table

Abstract Syntax		Transfer Syntax	
Name	UID	Name List	UID List
Ultrasound Image	1.2.840.10008.5.1.4.1.1.6.1	RLE Lossless	1.2.840.10008.1.2.5
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	JPEG Baseline	1.2.840.10008.1.2.4.50
Comprehensive Structured Report	1.2.840.10008.5.1.4.1.1.88.33	Explicit VR Little Endian	1.2.840.10008.1.2.1
Acuson Private Structured Report	1.2.840.10008.5.1.4.1.1.88.3	Explicit VR Little Endian	1.2.840.10008.1.2.1
DICOM Media Storage Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian	1.2.840.10008.1.2.1

4. Communication Profiles

4.1 TCP/IP Stack Supported

This implementation supports TCP/IP Protocol stack. OSI stack is not supported. This implementation is indifferent to the underlying physical medium. It only requires TCP/IP in the Transport and Network layers. Port number 2100 is used for DICOM communication with the Sequoia.

4.2 Physical Media Supported

Standard representation of IEEE 802.3 (10BaseT “twisted pair”) is supported and the system interfaces and transceivers configured to meet customer site-specific requirements.

4.3 Timeouts

Sequoia has several timeout settings that are currently not accessible to the user but for purposes of documentation, the timeout values are listed below:

Mergecom.pro

ARTIM_TIMEOUT = 30 sec
ASSOC_REPLY_TIMEOUT = 30 sec
RELEASE_TIMEOUT = 15 sec
WRITE_TIMEOUT = 15 sec
CONNECT_TIMEOUT = 15 sec
INACTIVITY_TIMEOUT = 180 sec

The description of these timeouts are as follows:

ARTIM_TIMEOUT – The number of seconds to use as a timeout waiting for association request or waiting for the peer to shut down an association.

ASSOC_REPLY_TIMEOUT – The number of seconds to wait for reply to associate request.

RELEASE_TIMEOUT – The number of seconds to wait for reply to associate release.

WRITE_TIMEOUT – The number of seconds to wait for a network write to be accepted.

CONNECT_TIMEOUT – The number of seconds to wait for a network connect to be accepted.

INACTIVITY_TIMEOUT – The number of seconds to wait for data between TCP/IP packets on a call to MC_Read_Message().

AegisServer code

Dicom Command Timeout = 180 sec
Association Idle Timeout = 1 sec

The description of these timeouts are as follows:

Dicom Command Timeout – The time Sequoia waits for a response to a DICOM command. For example, the time Sequoia waits for a C-STORE-RSP after it sends a C-STORE-RQ.

Association Idle Timeout – The time Sequoia waits before sending an A-RELEASE-RQ after all DICOM commands for the association have been sent.

5. Data Identification Information

Patient and image data originated from a Sequoia system can be identified by the Study Instance UID, Series Instance UID and SOP Instance UID, i.e., DICOM elements (0020, 000D), (0020, 000E) and (0008, 0018) in the IOD.

- Sequoia UID root is 1.2.840.113680.1.103
where:
1.2.840.113680 is the ANSI registered Acuson UID root.
- The Study Instance UID is composed using the following convention:
1.2.840.113680.1.103.n.s.t
where
n = serial number of the Sequoia machine
s = the UNIX epoch based time since a base time in seconds
t = microsecond within the second of current UNIX epoch-base time
- The Series Instance UID is composed of the Study Instance UID and the series number:
1.2.840.113680.1.103.n.s.t.r
where
r = 1 for full-screen static and dynamic and quarter-size static images
r = 2 for quarter-screen dynamic image
r = 3 for Acuson Private SR
r = 4 for DICOM Comprehensive SR
- The SOP Instance UID is composed of the Series Instance UID and the image number:
1.2.840.113680.1.103.n.s.t.r.f
where
f = image number

6. Extensions, Specializations and Privatizations

6.1 Private DICOM Elements

There are many DICOM Private tags used in Sequoia proprietary files internal to Sequoia software for image acquisition and image review on the Sequoia system and in the private Structured Report SOP object.

These can be exported to servers as part of the Store SCU AE configuration on the Sequoia system. They are also exported to removable MOD:

- ACQ_SET file: acquisition protocol and acquired image set information.
DICOM Private Elements, primarily (0009,xxxx)
- DSP_SET file: image set selected for display.
- CLIPS/IMAGES: Sequoia image data
Acuson private elements (7FDF, xxxx) in "Explicit VR Big Endian" file format
- CALC_SR: Sequoia measurements, calculations and findings for Cardiac, OB, and Vascular reports.
Various Acuson private, LOINC, and SNOMED elements

7. Configuration

The Sequoia Service User Interface database maintains configuration parameters for remote and local DICOM Application Entities. The parameters include:

- AE identification, i.e., a descriptive name
- Calling AE Title, IP address, and TCP port number (for Sequoia DICOM SCU)
- Called AE Title (for a remote SCP)
- TCP port number (for a remote SCP)
- IP address or host name (for a remote host where the remote SCP resides)
- DICOM print parameters for a DICOM print SCP entry
- Printer templates
- Some specialized information

This configuration database can be copied via a service MO to other Sequoia machines on the network. The local DICOM applications read information from this database. The DICOM Network configuration tool is the only application that can modify this database.

8. Support of Extended Character Sets

The following character set is supported:
ISO-IR 100 Latin Alphabet No. 1

9. References

- [1] Digital Imaging and Communication in Medicine (DICOM), NEMA
Standard Publication No. PS 3.1~3.13, NEMA, 1300 North 17th Street,
Suite 1847, Rosslyn, VA 22209, phone: (703)-841-3200.
- [2] World Wide Web: <http://medical.nema.org/>

10. Glossary

ACR	American College of Radiology
AE	Application Entity
ANSI	American National Standards Institute
DICOM	Digital Imaging and Communications in Medicine
DIMSE	DICOM Message Service Element
DVD/CD	Digital Versatile Disc/Compact Disc
FSC	File-set Creator
FSR	File-set Reader
FSU	File-set Updater
HIS/RIS	Hospital Information System/Radiology Information System
IOD	Information Object Definition
IHE	Integrating the Healthcare Enterprise
ISO	International Standards Organization
MOD	Magneto-Optical Disk
NEMA	National Electrical Manufacturers Association
OSI	Open Systems Interconnections
PDU	Protocol Data Unit
SCP	Service Class Provider (server)
SR	Structured Report
SCU	Service Class User (client)
TCP/IP	Transmission Control Protocol/Internet Protocol
SOP	Service Object Pair
UID	Unique Identification

11. Appendix A: OB-GYN Structured Report Measurements

This appendix lists the DICOM Structured Report (SR) mappings used in the Obstetric and Gynecologic Structured Reports of Sequoia DICOM SR files.

The mappings are organized in a manner similar to the DICOM SR Templates as described in PS 3.16-2004 of the DICOM Standard. The "Label" column identifies the on-screen label associated with a measurement. All private code values use the Coding Scheme Designator "99SEQUOIA".

The OB-GYN Report mappings follow the DICOM SR Template TID 5000: OB-GYN Ultrasound Procedure Report, except where noted. This appendix contains the list of supported OB-GYN measurements. Include/Exclude in Ultrasound MA, Ovaries, and Follicles are private sections in this release. Average values that appear on the Sequoia report pages are not included in the SR. Sequoia supports a maximum of 6 fetuses which are identified by the Subject ID values of "A" – "F".

Notation:

< ... > indicates that the description is not the actual text displayed
[...] is additional information

TID5000: OB-GYN Ultrasound Procedure Report

11.1 Patient Characteristics

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Patient Characteristics	Container: Patient Characteristics (DCM, 121118)		
Indication	Comment (DCM, 121106)		
Height	Patient Height (LN, 8302-2)		
Weight	Patient Weight (LN, 29463-7)		
Gravida	Gravida (LN, 11996-6)		
Para	Para (LN, 11977-6)		
Aborta	Aborta (LN, 11612-9)		
BP	Systolic Blood Pressure (SRT, F-008EC)		
	Diastolic Blood Pressure (SRT, F-008ED)		

11.2 OB-GYN Summary

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
OB-GYN Summary	Container: Summary (DCM, 121111)		
Gestations	Number of Fetuses (LN, 11878-6)		
General Comments	Comment (DCM, 121106)		

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Comments	Comment (DCM, 121106)		
EDD	EDD (LN, 11778-8)		
LMP	LMP (LN, 11955-2)		
Day of Cycle	Day of Cycle (99SEQUOIA, GynDayOfCycle)		

11.3 Fetus Summary

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Fetus Summary	Container: Fetus Summary (DCM, 125008)		
Clinical MA	Gestational Age by LMP (LN, 11885-1)		
EFW (<Author Label>)	Estimated Weight (LN, 11727-5)	<DICOM Author Information>	
EFW (<Author Label>)	OB EFW Author (99SEQUOIA, OBEFWAuthor)		
EFW ± (<Author Label>)	Standard deviation of population (DCM, 121414)		Estimated Weight (LN, 11727-5) <Author Information>
EFW%	EFW percentile rank (LN, 11767-1)	<DICOM Author Information>	
EFW% [<Author>, OB Calc Setup]	OB EFW Percent Author (99SEQUOIA, OBEFWPrntAuthor)		
[<Comments>, OB Calc Setup]	Comment (DCM, 121106)		
Ultrasound MA	Composite Ultrasound Age (LN, 11888-5)		
Ultrasound EDD	EDD from average ultrasound age (LN, 11781-2)		
LMP%	OB LMP Percent (99SEQUOIA, OBLMPPrcnt)		
LMP% [<Author>, OB Calc Setup]	OB LMP Percent Author (99SEQUOIA, OBLMPPrcntAuthor)		

11.3.1 Fetal Growth Authors (EFW)

Author Label	Author Information	Comments
Hadlock	Equation: EFW by Hadlock (99SEQUOIA, EFWbyHadlock)	
Hansmann	Equation: EFW by BPD, TTD, Hansmann 1986 (LN, 33139-7)	
Shepard	Equation: EFW by AC, BPD, Shepard 1982 (LN, 11739-0)	

11.3.2 Fetal Growth Percent Authors (EFW%)

Author Label	Author Information	Comments
Hadlock	Table: FWP by GA, Hadlock 1991 (LN, 33183-5)	
Jeanty	Table: FWP by GA, Jeanty (99SEQUOIA, FWPbyGAJeanty)	
Williams	Equation: FWP by GA, Williams 1982 (LN, 33184-3)	
Yarkoni	Table: FWP by GA, Yarkoni (99SEQUOIA, FWPbyGAYarkoni)	

11.3.3 LMP Percent Authors (LMP%)

Author Label	Author Information	Comments
Hadlock	Table: LMP Percent, Hadlock (99SEQUOIA, LMPPrcntHadlock)	
Jeanty	Table: LMP Percent, Jeanty (99SEQUOIA, LMPPrcntJeanty)	
Williams	Equation: LMP Percent, Williams (99SEQUOIA, LMPPrcntWilliams)	
Yarkoni	Table: LMP Percent, Yarkoni (99SEQUOIA, LMPPrcntYarkoni)	

11.4 Fetal Biometry Ratios

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Fetal Biometry Ratios	Container: Fetal Biometry Ratios (DCM, 125001)		
HC/AC	HC/AC (LN, 11947-9)		
FL/AC%	FL/AC (LN, 11871-1)		
FL/BPD%	FL/BPD (LN, 11872-9)		
CI	Cephalic Index (LN, 11823-2)		
[<Opt Ratio>, OB Calc Setup]	OB Optional Biometry Ratio Name (99SEQUOIA, OBOptRatioName)		
	OB Optional Biometry Ratio (99SEQUOIA, OBOptRatio)		

11.5 Fetal Biometry Measurements

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Fetal Biometry Measurements	Container: Fetal Biometry (DCM, 125002)		
AC	Abdominal Circumference (LN, 11979-2)		
AC MA (<Author Label>)	Gestational Age (LN, 18185-9)	<AC Author Information>	Abdominal Circumference (LN, 11979-2)
AC ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Abdominal Circumference (LN, 11979-2) <AC Author Information>
BPD	Biparietal Diameter (LN, 11820-8)		
BPD MA (<Author Label>)	Gestational Age (LN, 18185-9)	<BPD Author Information>	Biparietal Diameter (LN, 11820-8)
BPD ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Biparietal Diameter (LN, 11820-8) <BPD Author Information>
FL	Femur Length (LN, 11963-6)		
FL MA (<Author Label>)	Gestational Age (LN, 18185-9)	<FL Author Information>	Femur Length (LN, 11963-6)
FL ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Femur Length (LN, 11963-6) <FL Author Information>

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
HC	Head Circumference (LN, 11984-2)		
HC MA (<Author Label>)	Gestational Age (LN, 18185-9)	<HC Author Information>	Head Circumference (LN, 11984-2)
HC ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Head Circumference (LN, 11984-2) <HC Author Information>
HC D1	Head Circumference Major Axis (99SEQUOIA, OBHcD1)		
HC D2	Head Circumference Minor Axis (99SEQUOIA, OBHcD2)		
CER [Opt#, OB Calc Setup]	Trans Cerebellar Diameter (LN, 11863-8)		
CER MA (<Author Label>)	Gestational Age (LN, 18185-9)	<CER Author Information>	Trans Cerebellar Diameter (LN, 11863-8)
CER ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Trans Cerebellar Diameter (LN, 11863-8) <CER Author Information>
TTD [Opt#, OB Calc Setup]	Transverse Thoracic Diameter (LN, 11864-6)		
TTD MA (<Author Label>)	Gestational Age (LN, 18185-9)	<TTD Author Information>	Transverse Thoracic Diameter (LN, 11864-6)
TTD ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Transverse Thoracic Diameter (LN, 11864-6) <TTD Author Information>
[<Opt1>, OB Calc Setup]	OB Optional Biometry Measurement 1 Name (99SEQUOIA , OBOpt1Name)		
	OB Optional Biometry Measurement 1 (99SEQUOIA, OBOpt1)		
[<Opt1 MA (Author Label)>, OB Calc Setup]	Gestational Age (LN, 18185-9)	OB Optional Biometry Measurement 1 MA Author (99SEQUOIA, OBOpt1MAAauthor)	
[<Opt1 ±SD (<Author Label>)]	Standard deviation of population (DCM, 121414)		OB Optional Biometry Measurement 1 (99SEQUOIA, OBOpt1) OB Optional Biometry Measurement 1 MA Author (99SEQUOIA, OBOpt1MAAauthor)
[<Opt2>, OB Calc Setup]	OB Optional Biometry Measurement 2 Name (99SEQUOIA , OBOpt2Name)		
	OB Optional Biometry Measurement 2 (99SEQUOIA, OBOpt2)		
[<Opt2 MA (Author Label)>, OB Calc Setup]	Gestational Age (LN, 18185-9)	OB Optional Biometry Measurement 2 MA Author (99SEQUOIA, OBOpt2MAAauthor)	
[<Opt2 ±SD (<Author Label>)]	Standard deviation of population (DCM, 121414)		OB Optional Biometry Measurement 2 (99SEQUOIA, OBOpt2) OB Optional Biometry Measurement 2 MA Author (99SEQUOIA, OBOpt2MAAauthor)

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
[<Opt3>, OB Calc Setup]	OB Optional Biometry Measurement 3 Name (99SEQUOIA , OBOpt3Name)		
	OB Optional Biometry Measurement 3 (99SEQUOIA, OBOpt3)		
[<Opt3 MA (Author Label)>, OB Calc Setup]	Gestational Age (LN, 18185-9)	OB Optional Biometry Measurement 3 MA Author (99SEQUOIA, OBOpt3MAAauthor)	
[<Opt3 ±SD (<Author Label>)]	Standard deviation of population (DCM, 121414)		OB Optional Biometry Measurement 3 (99SEQUOIA, OBOpt3) OB Optional Biometry Measurement 3 MA Author (99SEQUOIA, OBOpt3MAAauthor)
[<Opt4>, OB Calc Setup]	OB Optional Biometry Measurement 4 Name (99SEQUOIA , OBOpt4Name)		
	OB Optional Biometry Measurement 4 (99SEQUOIA, OBOpt4)		
[<Opt4 MA (Author Label)>, OB Calc Setup]	Gestational Age (LN, 18185-9)	OB Optional Biometry Measurement 4 MA Author (99SEQUOIA, OBOpt4MAAauthor)	
[<Opt4 ±SD (<Author Label>)]	Standard deviation of population (DCM, 121414)		OB Optional Biometry Measurement 4 (99SEQUOIA, OBOpt4) OB Optional Biometry Measurement 4 MA Author (99SEQUOIA, OBOpt4MAAauthor)
[<LLM>, OB Calc Setup]	OB Linear Length Measurement Name (99SEQUOIA , OBLImName)		
	OB Linear Length Measurement (99SEQUOIA, OBLIm)		

11.5.1 AC Gestational Age Authors

Author Label	Author Information	Comments
ASUM	Table: AC, ASUM 2000 (LN, 33072-0)	
Campbell	Equation: AC, Campbell 1975 (LN, 11889-3)	
Hadlock	Equation: AC, Hadlock 1984 (LN, 11892-7)	
Jeanty	Equation: AC, Jeanty 1984 (LN, 11893-5)	
Lasser	Table: AC, Lasser (99SEQUOIA, ACMALasser)	
Merz	Table: AC, Merz 1988 (LN, 33075-3)	

11.5.2 BPD Gestational Age Authors

Author Label	Author Information	Comments
ASUM	Table: BPD, ASUM 1989 (LN, 33079-5)	
Campbell	Equation: BPD, Campbell (99SEQUOIA, BPDMACampbell)	

Author Label	Author Information	Comments
Hadlock	Equation: BPD, Hadlock 1984 (LN, 11902-4)	
Hansmann	Equation: BPD, Hansmann 1986 (LN, 33538-0)	
Lasser	Table: BPD, Lasser (99SEQUOIA, BPDMA Lasser)	
Merz	Table: BPD, Merz 1988 (LN, 33081-1)	

11.5.3 FL Gestational Age Authors

Author Label	Author Information	Comments
ASUM	Table: FL, ASUM (99SEQUOIA, FLMAASUM)	
Campbell	Equation: FL, Campbell (99SEQUOIA, FLMACampbell)	
Hadlock	Equation: FL, Hadlock 1984 (LN, 11920-6)	
Hansmann	Equation: FL, Hansmann 1986 (LN, 33541-4)	
Merz	Table: FL, Merz 1988 (LN, 33542-2)	

11.5.4 HC Gestational Age Authors

Author Label	Author Information	Comments
ASUM	Table: HC, ASUM 2000 (LN, 33109-0)	
Campbell	Equation: HC, Campbell (99SEQUOIA, HCMACampbell)	
Hadlock	Equation: HC, Hadlock 1984 (LN, 11932-1)	
Hansmann	Equation: HC, Hansmann 1986 (LN, 33543-0)	
Lasser	Table: HC, Lasser (99SEQUOIA, HCMALasser)	
Merz	Table: HC, Merz 1988 (LN, 33115-7)	

11.5.5 CER Gestational Age Authors

Author Label	Author Information	Comments
Goldstein	Equation: CER, Goldstein (99SEQUOIA, CERMAGoldstein)	
Hata	Equation: CER, Hata (99SEQUOIA, CERMAHata)	
Hill	Table: CER, Hill (99SEQUOIA, CERMAHill)	
McLeary	Equation: CER, McLeary (99SEQUOIA, CERMAMcLeary)	

11.5.6 TTD Gestational Age Authors

Author Label	Author Information	Comments
Bonn	Equation: TTD, Bonn (99SEQUOIA, TTDMA Bonna)	
Merz	Table: TTD, Merz (99SEQUOIA, TTDMA Merz)	
Persson	Equation: TTD, Persson (99SEQUOIA, TTDMA Persson)	

11.6 Fetal Long Bones Biometry Measurements

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Fetal Long Bones Biometry Measurements	Container: Fetal Long Bones (DCM, 125003)		
HUM [Opt#, OB Calc Setup]	Humerus Length (LN, 11966-9)		
HUM MA (<Author Label>)	Gestational Age (LN, 18185-9)	<HUM Author Information>	Humerus Length (LN, 11966-9)
HUM ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Humerus Length (LN, 11966-9) <HUM Author Information>

11.6.1 HUM Gestational Age Authors

Author Label	Author Information	Comments
ASUM	Table: Humerus, ASUM 2000 (LN, 33116-5)	
Jeanty	Equation: Humerus, Jeanty 1984 (LN, 11936-2)	
Merz	Equation/Table: Humerus, Merz 1987 (LN, 11937-0)	
Queenan	Equation: Humerus, Queenan (99SEQUOIA, HUMMAQueenan)	

11.7 Amniotic Sac

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Amniotic Sac	Finding Site: Amniotic Sac (SRT, T-F1300)		
AFI	Amniotic Fluid Index (LN, 11627-7)		
Q1	First Quadrant Diameter (LN, 11624-4)		
Q2	Second Quadrant Diameter (LN, 11626-9)		
Q3	Third Quadrant Diameter (LN, 11625-1)		
Q4	Fourth Quadrant Diameter (LN, 11623-6)		

11.8 Early Gestation Biometry Measurements

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Early Gestation Biometry Measurements	Container: Early Gestation (DCM, 125009)		
CRL	Crown Rump Length (LN, 11957-8)		
CRL MA (<Author Label>)	Gestational Age (LN, 18185-9)	<CRL Author Information>	Crown Rump Length (LN, 11957-8)
CRL ±SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Crown Rump Length (LN, 11957-8) <CRL Author Information>

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
GS [Opt#, OB Calc Setup]	Gestational Sac Diameter (LN, 11850-5)		
GS MA (<Author Label>)	Gestational Age (LN, 18185-9)	<GS Author Information>	Gestational Sac Diameter (LN, 11850-5)
GS $\pm$ SD (<Author Label>)	Standard deviation of population (DCM, 121414)		Gestational Sac Diameter (LN, 11850-5) <GS Author Information>

11.8.1 CRL Gestational Age Authors

Author Label	Author Information	Comments
ASUM	Table: CRL, ASUM 2000 (LN, 33090-2)	
Hadlock	Equation: CRL, Hadlock 1992 (LN, 11910-7)	
Lasser	Table: CRL, Lasser (99SEQUOIA, CRLMALasser)	
Nelson	Equation: CRL, Nelson 1981 (LN, 11913-1)	
Rempen	Table: CRL, Rempen 1991 (LN, 33094-4)	
Robinson	Equation: CRL, Robinson 1975 (LN, 11914-9)	

11.8.2 GS Gestational Age Authors

Author Label	Author Information	Comments
Hansmann	Equation: GS, Hansmann 1982 (LN, 33106-6)	
Hellman	Equation: GS, Hellman 1969 (LN, 11928-9)	
Nyberg	Equation: GS, Nyberg 1992 (LN, 33107-4)	
Rempen	Table: GS, Rempen 1991 (LN, 11929-7)	

11.9 Fetal Biophysical Profile

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Fetal Biophysical Profile	Container: Biophysical Profile (DCM, 125006)		
Gross Body Movement	Gross Body Movement (LN, 11631-9)		
Fetal Breathing Movement	Fetal Breathing (LN, 11632-7)		
Fetal Tone	Fetal Tone (LN, 11635-0)		
Reactive FHR	Fetal Heart Reactivity (LN, 11635-5)		
Qualitative AFV	Amniotic Fluid Volume (LN, 11630-1)		
Total	Biophysical Profile Sum Score (LN, 11634-3)		

11.10 Pelvis and Uterus

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Pelvis and Uterus	Container: Pelvis and Uterus (DCM, 125011)		
Uterus Width	Uterus Width (LN, 11865-3)		
Uterus Length	Uterus Length (LN, 11842-2)		
Uterus Height	Uterus Height (LN, 11859-6)		
Uterus Volume	Uterus Volume (LN, 33192-6)		
Cervix	Cervix Length (LN, 11961-0)		
Endometrium	Endometrium Thickness (LN, 12145-9)		

11.11 Pelvic Vasculature

Measurement Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Pelvic Vasculature	Finding Site: Pelvic Vascular Structure (SRT, T-D6007)		
Uterus	Location: Uterine Artery (SRT, T-46820)		
Max	Peak Systolic Velocity (LN, 11726-7)		
Min	End Diastolic Velocity (LN, 11653-3)		
TAMX	Time Averaged Peak Velocity (LN, 11692-1)		
Accl	Acceleration Index (LN, 20167-3)		
AT	Acceleration Time (LN, 20168-1)		
PI	Pulsatility Index (LN, 12008-9)		
RI	Resistivity Index (LN, 12023-8)		
S/D	Systolic to Diastolic Velocity Ratio (LN, 12144-2)		
Left Ovary	Location: Ovarian Artery (SRT, T-46980)	Laterality: Left (SRT, G-A101)	
Max	Peak Systolic Velocity (LN, 11726-7)		
Min	End Diastolic Velocity (LN, 11653-3)		
TAMX	Time Averaged Peak Velocity (LN, 11692-1)		
Accl	Acceleration Index (LN, 20167-3)		
AT	Acceleration Time (LN, 20168-1)		
PI	Pulsatility Index (LN, 12008-9)		
RI	Resistivity Index (LN, 12023-8)		
S/D	Systolic to Diastolic Velocity Ratio (LN, 12144-2)		
Right Ovary	Location: Ovarian Artery (SRT, T-46980)	Laterality: Right (SRT, G-A100)	
Max	Peak Systolic Velocity (LN, 11726-7)		
Min	End Diastolic Velocity (LN, 11653-3)		

Measurement Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
TAMX	Time Averaged Peak Velocity (LN, 11692-1)		
Accl	Acceleration Index (LN, 20167-3)		
AT	Acceleration Time (LN, 20168-1)		
PI	Pulsatility Index (LN, 12008-9)		
RI	Resistivity Index (LN, 12023-8)		
S/D	Systolic to Diastolic Velocity Ratio (LN, 12144-2)		

11.12 Private Section: Include/Exclude in Ultrasound MA

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Include/Exclude in Ultrasound MA	Container: Include/Exclude in Ultrasound MA (99SEQUOIA, IncludeExcludeMA)		
☐ [on OB worksheet]	Include AC in Ultrasound MA (99SEQUOIA, IncludeAcUSMA)		
☐ [on OB worksheet]	Include BPD in Ultrasound MA (99SEQUOIA, IncludeBpdUSMA)		
☐ [on OB worksheet]	Include CRL in Ultrasound MA (99SEQUOIA, IncludeCrUSMA)		
☐ [on OB worksheet]	Include FL in Ultrasound MA (99SEQUOIA, IncludeFIUSMA)		
☐ [on OB worksheet]	Include HC in Ultrasound MA (99SEQUOIA, IncludeHcUSMA)		
☐ [on OB worksheet]	Include Opt1 in Ultrasound MA (99SEQUOIA, IncludeOpt1USMA)		
☐ [on OB worksheet]	Include Opt2 in Ultrasound MA (99SEQUOIA, IncludeOpt2USMA)		
☐ [on OB worksheet]	Include Opt3 in Ultrasound MA (99SEQUOIA, IncludeOpt3USMA)		
☐ [on OB worksheet]	Include Opt4 in Ultrasound MA (99SEQUOIA, IncludeOpt4USMA)		
☒ [on OB worksheet]	Exclude AC in Ultrasound MA (99SEQUOIA, ExcludeAcUSMA)		
☒ [on OB worksheet]	Exclude BPD in Ultrasound MA (99SEQUOIA, ExcludeBpdUSMA)		
☒ [on OB worksheet]	Exclude CRL in Ultrasound MA (99SEQUOIA, ExcludeCrUSMA)		

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
⊖ ■ [on OB worksheet]	Exclude FL in Ultrasound MA (99SEQUOIA, ExcludeFIUSMA)		
⊖ ■ [on OB worksheet]	Exclude HC in Ultrasound MA (99SEQUOIA, ExcludeHcUSMA)		
⊖ ■ [on OB worksheet]	Exclude Opt1 in Ultrasound MA (99SEQUOIA, ExcludeOpt1USMA)		
⊖ ■ [on OB worksheet]	Exclude Opt2 in Ultrasound MA (99SEQUOIA, ExcludeOpt2USMA)		
⊖ ■ [on OB worksheet]	Exclude Opt3 in Ultrasound MA (99SEQUOIA, ExcludeOpt3USMA)		
⊖ ■ [on OB worksheet]	Exclude Opt4 in Ultrasound MA (99SEQUOIA, ExcludeOpt4USMA)		

11.13 Private Section: Left Ovary

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Left Ovary	Container: Left Ovary (99SEQUOIA, LeftOvary)		
Length	Left Ovary Width (LN, 11829-9)		
Width	Left Ovary Length (LN, 11840-6)		
Height	Left Ovary Height (LN, 11857-0)		
Volume	Left Ovary Volume (LN, 12164-0)		

11.14 Private Section: Right Ovary

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Right Ovary	Container: Right Ovary (99SEQUOIA, RightOvary)		
Length	Right Ovary Width (LN, 11830-7)		
Width	Right Ovary Length (LN, 11841-4)		
Height	Right Ovary Height (LN, 11858-8)		
Volume	Right Ovary Volume (LN, 12165-7)		

11.15 Private Section: Left Follicles

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Left Ovary Follicles <N> = 1..16	Container: Left Follicles (99SEQUOIA, LeftFollicles)		
<N> Diam	Left Follicle <N> Length (99SEQUOIA, Lfollicle<N>Len) [e.g. Left Follicle 1 Length (99SEQUOIA, Lfollicle1Len)]		
<N> Volume	Left Follicle <N> Volume (99SEQUOIA, Lfollicle<N>Vol) [e.g. Left Follicle 1 Volume (99SEQUOIA, Lfollicle1Vol)]		
<N> Avg	Left Follicle <N> Average Diameter (99SEQUOIA, LFollicle<N>AvDiam) [e.g. Left Follicle 1 Average Diameter (99SEQUOIA, LFollicle1AvDiam)]		
<N> D1	Left Follicle <N> Diameter 1 (99SEQUOIA, LFollicle<N>Diam1) [e.g. Left Follicle 1 Diameter 1 (99SEQUOIA, LFollicle1Diam1)]		
<N> D2	Left Follicle <N> Diameter 2 (99SEQUOIA, LFollicle<N>Diam2) [e.g. Left Follicle 1 Diameter 2 (99SEQUOIA, LFollicle1Diam2)]		
<N> D3	Left Follicle <N> Diameter 3 (99SEQUOIA, LFollicle<N>Diam3) [e.g. Left Follicle 1 Diameter 3 (99SEQUOIA, LFollicle1Diam3)]		

11.16 Private Section: Right Follicles

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
Right Ovary Follicles <N> = 1..16	Container: Right Follicles (99SEQUOIA, RightFollicles)		
<N> Diam	Right Follicle <N> Length (99SEQUOIA, Rfollicle<N>Len) [e.g. Right Follicle 1 Length (99SEQUOIA, Rfollicle1Len)]		

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers	Measurement References
<N> Volume	Right Follicle <N> Volume (99SEQUOIA, RFollicle<N>Vol) [e.g. Right Follicle 1 Volume (99SEQUOIA, RFollicle1Vol)]		
<N> Avg	Right Follicle <N> Average Diameter (99SEQUOIA, RFollicle<N>AvDiam) [e.g. Right Follicle 1 Average Diameter (99SEQUOIA, RFollicle1AvDiam)]		
<N> D1	Right Follicle <N> Diameter 1 (99SEQUOIA, RFollicle<N>Diam1) [e.g. Right Follicle 1 Diameter 1 (99SEQUOIA, RFollicle1Diam1)]		
<N> D2	Right Follicle <N> Diameter 2 (99SEQUOIA, RFollicle<N>Diam2) [e.g. Right Follicle 1 Diameter 2 (99SEQUOIA, RFollicle1Diam2)]		
<N> D3	Right Follicle <N> Diameter 3 (99SEQUOIA, RFollicle<N>Diam3) [e.g. Right Follicle 1 Diameter 3 (99SEQUOIA, RFollicle1Diam3)]		

12. Appendix B: Vascular Structured Report Measurements

This appendix lists the DICOM Structured Report (SR) mappings used in the Vascular Structured Reports of Sequoia DICOM SR files.

The mappings are organized in a manner similar to the DICOM SR Templates as described in PS 3.16-2004 of the DICOM Standard. The “Label” column identifies the on-screen label associated with a measurement. All private code values use the Coding Scheme Designator “99SEQUOIA”.

The Vascular Report mappings follow the DICOM SR Template TID 5100: Vascular Ultrasound Report, except where noted. This appendix contains the list of supported vascular measurements. Resistivity Sites, Velocity Sites, Acceleration Sites, Ratio Sites, Stenosis Area Sites, Stenosis Diameter Sites, Volume Flow Area Sites, and Volume Flow Diameter Sites are private sections in this release. Average values that appear on the Sequoia report pages are not included in the SR.

Notation:

< ... > indicates that the description is not the actual text displayed
[...] is additional information

TID5100: Vascular Ultrasound Report

12.1 Patient Characteristics

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Patient Characteristics	Container: Patient Characteristics (DCM, 121118)	
Age	Subject Age (DCM, 121033)	
Sex	Subject Sex (DCM, 121032)	
HR	Heart Rate (LN, 8867-4)	
BP	Systolic Blood Pressure (SRT, F-008EC)	
	Diastolic Blood Pressure (SRT, F-008ED)	
Private Characteristics		
Indications	Comment (DCM, 121106)	
Height	Patient Height (LN, 8302-2)	
Weight	Patient Weight (LN, 29463-7)	

12.2 Artery of Neck (Left Extracranial Arteries, Carotid Ratios)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Neck (Left Extracranial Arteries, Carotid Ratios)	Finding Site: Artery of Neck (SRT, T-45005)	Laterality: Left (SRT, G-A101)
Carotid Study, Left, Internal/Common Carotid Ratio: IC/CC	ICA/CCA Velocity Ratio (LN, 33868-1)	
CCA	Location: Common Carotid Artery (SRT, T-45100)	Laterality: Left (SRT, G-A101)
Carotid Study, Left: CCA edv	End Diastolic Velocity (LN, 11653-3)	
Carotid Study, Left: CCA edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	
Carotid Study, Left: CCA psv	Peak Systolic Velocity (LN, 11726-7)	
Carotid Study, Left: CCA psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	
ICA	Location: Internal Carotid Artery (SRT, T-45300)	Laterality: Left (SRT, G-A101)
[Not shown on a report page]	End Diastolic Velocity, Maximum (99SEQUOIA, MaxEDV)	
[Not shown on a report page]	Peak Systolic Velocity, Maximum (99SEQUOIA, MaxPSV)	
Carotid Study, Left: ICA Prox edv	End Diastolic Velocity (LN, 11653-3)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Left: ICA Prox edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Left: ICA Mid edv	End Diastolic Velocity (LN, 11653-3)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Left: ICA Mid edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Left: ICA Dist edv	End Diastolic Velocity (LN, 11653-3)	Topographical Modifier: Distal (SRT, G-A119)
Carotid Study, Left: ICA Dist edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	Topographical Modifier: Distal (SRT, G-A119)
Carotid Study, Left: ICA Prox psv	Peak Systolic Velocity (LN, 11726-7)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Left: ICA Prox psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Left: ICA Mid psv	Peak Systolic Velocity (LN, 11726-7)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Left: ICA Mid psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Left: ICA Dist psv	Peak Systolic Velocity (LN, 11726-7)	Topographical Modifier: Distal (SRT, G-A119)
Carotid Study, Left: ICA Dist psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	Topographical Modifier: Distal (SRT, G-A119)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
ECA	Location: External Carotid Artery (SRT, T-45200)	Laterality: Left (SRT, G-A101)
Carotid Study, Left: ECA	Velocity (99SEQUOIA, VascVel)	
Carotid Study, Left: ECA <Angle value is next to ECA value>	Velocity Angle (99SEQUOIA, VascVelAngle)	
Subclav	Location: Subclavian Artery (SRT, T-46100)	Laterality: Left (SRT, G-A101)
Carotid Study, Left: Subclav	Velocity (99SEQUOIA, VascVel)	
Carotid Study, Left: Subclav <Angle value is next to Subclav value>	Velocity Angle (99SEQUOIA, VascVelAngle)	
Vert	Location: Vertebral Artery (SRT, T-45700)	Laterality: Left (SRT, G-A101)
Carotid Study, Left: Vert	Velocity (99SEQUOIA, VascVel)	
Carotid Study, Left: Vert <Angle value is next to Vert value>	Velocity Angle (99SEQUOIA, VascVelAngle)	

12.3 Artery of Neck (Right Extracranial Arteries, Carotid Ratios)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Neck (Right Extracranial Arteries, Carotid Ratios)	Finding Site: Artery of Neck (SRT, T-45005)	Laterality: Right (SRT, G-A100)
Carotid Study, Right, Internal/Common Carotid Ratio: IC/CC	ICA/CCA Velocity Ratio (LN, 33868-1)	
CCA	Location: Common Carotid Artery (SRT, T-45100)	Laterality: Right (SRT, G-A100)
Carotid Study, Right: CCA edv	End Diastolic Velocity (LN, 11653-3)	
Carotid Study, Right: CCA edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	
Carotid Study, Right: CCA psv	Peak Systolic Velocity (LN, 11726-7)	
Carotid Study, Right: CCA psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	
ICA	Location: Internal Carotid Artery (SRT, T-45300)	Laterality: Right (SRT, G-A100)
[Not shown on a report page]	End Diastolic Velocity, Maximum (99SEQUOIA, MaxEDV)	
[Not shown on a report page]	Peak Systolic Velocity, Maximum (99SEQUOIA, MaxPSV)	
Carotid Study, Right: ICA Prox edv	End Diastolic Velocity (LN, 11653-3)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Right: ICA Prox edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Right: ICA Mid edv	End Diastolic Velocity (LN, 11653-3)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Carotid Study, Right: ICA Mid edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Right: ICA Dist edv	End Diastolic Velocity (LN, 11653-3)	Topographical Modifier: Distal (SRT, G-A119)
Carotid Study, Right: ICA Dist edv <Angle value is next to edv value>	End Diastolic Velocity Angle (99SEQUOIA, AngleEDV)	Topographical Modifier: Distal (SRT, G-A119)
Carotid Study, Right: ICA Prox psv	Peak Systolic Velocity (LN, 11726-7)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Right: ICA Prox psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	Topographical Modifier: Proximal (SRT, G-A118)
Carotid Study, Right: ICA Mid psv	Peak Systolic Velocity (LN, 11726-7)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Right: ICA Mid psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid Study, Right: ICA Dist psv	Peak Systolic Velocity (LN, 11726-7)	Topographical Modifier: Distal (SRT, G-A119)
Carotid Study, Right: ICA Dist psv <Angle value is next to psv value>	Peak Systolic Velocity Angle (99SEQUOIA, AnglePSV)	Topographical Modifier: Distal (SRT, G-A119)
ECA	Location: External Carotid Artery (SRT, T-45200)	Laterality: Right (SRT, G-A100)
Carotid Study, Right: ECA	Velocity (99SEQUOIA, VascVel)	
Carotid Study, Right: ECA <Angle value is next to ECA value>	Velocity Angle (99SEQUOIA, VascVelAngle)	
Subclav	Location: Subclavian Artery (SRT, T-46100)	Laterality: Right (SRT, G-A100)
Carotid Study, Right: Subclav	Velocity (99SEQUOIA, VascVel)	
Carotid Study, Right: Subclav <Angle value is next to Subclav value>	Velocity Angle (99SEQUOIA, VascVelAngle)	
Vert	Location: Vertebral Artery (SRT, T-45700)	Laterality: Right (SRT, G-A100)
Carotid Study, Right: Vert	Velocity (99SEQUOIA, VascVel)	
Carotid Study, Right: Vert <Angle value is next to Vert value>	Velocity Angle (99SEQUOIA, VascVelAngle)	

12.4 Private Section: Resistivity Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Resistivity Sites	Container: Resistance Sites (99SEQUOIA, ResistSites)	
Resistivity Site N where N = 1, 2, 3, 4	Container: Resistance Site N (99SEQUOIA, ResistSiteN) [e.g. Resistance Site 1 (99SEQUOIA, ResistSite1)]	
Resistance Indices, <SiteN Name>	Resistance Site Name (99SEQUOIA, ResistSiteName)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Resistance Indices, <SiteN Name>: Angle	Angle (99SEQUOIA, ResistSiteAngle)	
Resistance Indices, <SiteN Name>: Min	Minimum Diastolic Velocity (LN, 11665-7)	
Resistance Indices, <SiteN Name>: Max	Peak Systolic Velocity (LN, 11726-7)	
Resistance Indices, <SiteN Name>: TAMx	Time Averaged Peak Velocity (LN, 11692-1)	
Resistance Indices, <SiteN Name>: PI	Pulsatility Index (LN, 12008-9)	
Resistance Indices, <SiteN Name>: RI	Resistivity Index (LN, 12023-8)	
Resistance Indices, <SiteN Name>: S/D	Systolic to Diastolic Velocity Ratio (LN, 12144-2)	

12.5 Private Section: Velocity Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Velocity Sites	Container: Velocity Sites (99SEQUOIA, VelSites)	
Velocity SiteN where N = 1, 2, 3, 4, 5, 6	Container: Velocity Site N (99SEQUOIA, VelSiteN) [e.g. Velocity Site 1 (99SEQUOIA, VelSite1)]	
Velocities, <SiteN Name>	Velocity Site Name (99SEQUOIA, VelSiteName)	
Velocities, <V1 or V2>, <Angle value is next to edv value>: <SiteN Name>	Angle (99SEQUOIA, VelSiteAngle)	
Velocities, <V1 or V2>, edv: <SiteN Name>	End Diastolic Velocity (LN, 11653-3)	
Velocities, <V1 or V2>, psv: <SiteN Name>	Peak Systolic Velocity (LN, 11726-7)	

12.6 Private Section: Acceleration Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Acceleration Sites	Container: Acceleration Sites (99SEQUOIA, AccelSites)	
Acceleration Site N where N = 1, 2, 3, 4	Container: Acceleration Site N (99SEQUOIA, AccelSiteN) [e.g. Acceleration Site 1 (99SEQUOIA, AccelSite1)]	
Acceleration, <SiteN Name>	Acceleration Site Name (99SEQUOIA, AccelSiteName)	
Acceleration, <SiteN Name>: Accel	Acceleration Index (LN, 20167-3)	
Acceleration, <SiteN Name>: Angle	Angle (99SEQUOIA, AccelSiteAngle)	
Acceleration, <SiteN Name>: ΔT	Change in Time (99SEQUOIA, AccelSitedT)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Acceleration, <SiteN Name>: ΔV	Change in Velocity (99SEQUOIA, AccelSitedV)	

12.7 Private Section: Ratio Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Ratio Sites	Container: Ratio Sites (99SEQUOIA, RatioSites)	
Ratio: <Denominator Name>	Denominator Velocity Name (99SEQUOIA, RatioDenomName)	
Ratio: <Numerator Name>	Numerator Velocity Name (99SEQUOIA, RatioNumerName)	
Ratio Site N where N = 1, 2, 3, 4	Container: Ratio Site N (99SEQUOIA, RatioSiteN) [e.g. Ratio Site 1 (99SEQUOIA, RatioSite1)]	
Ratio, <SiteN Name>	Velocity Ratio Site Name (99SEQUOIA, RatioSiteName)	
Ratio, <SiteN Name>: <Denominator Name>	Denominator Velocity (99SEQUOIA, RatioSiteDenom)	
Ratio, <SiteN Name>: <Angle value is next to denominator value>	Denominator Angle (99SEQUOIA, RatioSiteDAngle)	
Ratio, <SiteN Name>: <Numerator Name>	Numerator Velocity (99 SEQUOIA, RatioSiteNumer)	
Ratio, <SiteN Name>: <Angle value is next to numerator value>	Numerator Angle (99SEQUOIA, RatioSiteNAngle)	
Ratio, <SiteN Name>: <Numerator Name/Denominator Name>	Velocity Ratio (99SEQUOIA, RatioSiteValue)	

12.8 Private Section: Stenosis Area Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Stenosis Area Sites	Container: Stenosis Area Sites (99SEQUOIA, StenAreaSites)	
Stenosis Area Site N where N = 1, 2, 3, 4	Container: Stenosis Area Site N (99SEQUOIA, StenAreaSiteN) [e.g. Stenosis Area Site 1 (99SEQUOIA, StenAreaSite1)]	
% Stenosis Area, <SiteN Name>	Stenosis % by Area Site Name (99SEQUOIA, StenASiteName)	
% Stenosis Area, <SiteN Name>: Area 1	Area 1 (99SEQUOIA, StenASArea1)	
% Stenosis Area, <SiteN Name>: Area 2	Area 2 (99SEQUOIA, StenASArea2)	
% Stenosis Area, <SiteN Name>: % Stenosis	% Area Reduction (SRT, G-0371)	

12.9 Private Section: Stenosis Diameter Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Stenosis Diameter Sites	Container: Stenosis Diameter Sites (99SEQUOIA, StenDiamSites)	
Stenosis Diameter Site N where N = 1, 2, 3, 4	Container: Stenosis Diameter Site N (99SEQUOIA, StenDiamSiteN) [e.g. Stenosis Diameter Site 1 (99SEQUOIA, StenDiamSite1)]	
% Stenosis Diam, <SiteN Name>	Stenosis % by Diameter Site Name (99SEQUOIA, StenDSiteName)	
% Stenosis Diam, <SiteN Name>: Diam 1	Diameter 1 (99SEQUOIA, StenDSDiam1)	
% Stenosis Diam, <SiteN Name>: Diam 2	Diameter 2 (99SEQUOIA, StenDSDiam2)	
% Stenosis Diam, <SiteN Name>: % Stenosis	% Diameter Reduction (SRT, G-0372)	

12.10 Private Section: Volume Flow Area Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Volume Flow Area Sites	Container: Volume Flow Area Sites (99SEQUOIA, VolFAreaSites)	
Volume Flow Area Site N where N = 1, 2, 3, 4	Container: Volume Flow Area Site N (99SEQUOIA, VolFAreaSiteN) [e.g. Volume Flow Area Site 1 (99SEQUOIA, VolFAreaSite1)]	
Volume Flow Area, <SiteN Name>	Volume Flow Area Site Name (99SEQUOIA, VFAreaSiteName)	
Volume Flow Area, <SiteN Name>: Volume	Volume Flow (LN, 33878-0)	
Volume Flow Area, <SiteN Name>: Area	Vessel Lumen Cross Sectional Area (SRT, G-0366)	
Volume Flow Area, <SiteN Name>: Angle	Angle (99SEQUOIA, VFAreaSiteAngle)	
Volume Flow Area, <SiteN Name>: TAV	Time Averaged Velocity (99SEQUOIA, VFAreaSiteTAV)	

12.11 Private Section: Volume Flow Diameter Sites

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Volume Flow Diameter Sites	Container: Volume Flow Diameter Sites (99SEQUOIA, VolFDiamSites)	
Volume Flow Diameter Site N where N = 1, 2, 3, 4	Container: Volume Flow Diameter Site N (99SEQUOIA, VolFDiamSiteN) [e.g. Volume Flow Diameter Site 1 (99SEQUOIA, VolFDiamSite1)]	
Volume Flow Diam, <SiteN Name>	Volume Flow Diameter Site Name (99SEQUOIA, VFDiamSiteName)	
Volume Flow Diam, <SiteN Name>: Volume	Volume Flow (LN, 33878-0)	
Volume Flow Diam, <SiteN Name>: Diam	Vessel Lumen Diameter (SRT, G-0364)	
Volume Flow Diam, <SiteN Name>: Angle	Angle (99SEQUOIA, VFDiamSiteAngle)	
Volume Flow Diam, <SiteN Name>: TAV	Time Averaged Velocity (99SEQUOIA, VFDiamSiteTAV)	

13. Appendix C: Vascular Structured Report Measurements for Advanced Vascular Analysis (AVA)

This appendix lists the DICOM Structured Report (SR) mappings used in the Vascular Structured Reports of Sequoia DICOM SR files for the Advanced Vascular Analysis (AVA) feature.

The mappings are organized in a manner similar to the DICOM SR Templates as described in PS 3.16-2004 of the DICOM Standard. The “Label” column identifies the on-screen label associated with a measurement and are the factory default for the AVA report pages. Generally, measurements without labels are additional measurements available in the syngoDynamics Vascular Library that are supported in Sequoia for customized AVA report templates. Measurements List 1 [L1] and Measurements List 2 [L2] identify supported measurements for the vessels listed in the following sections.

The Vascular Report mappings follow the DICOM SR Template TID 5100: Vascular Ultrasound Report, except where noted. Average values that appear on the AVA report pages are not included in the SR. The reporting package will need to calculate them from the corresponding data. Pressure values do not show up on a report page, but are shown on a worksheet page and are present in the DICOM SR file. Resistivity Index (RI), Pulsatility Index (PI), and S/D Ratio (S/D) values are in the DICOM SR file only when Auto Meas from the calc menu is used to generate them. Area and Diameter %Stenosis values, Kidney volumes, and Bladder volumes are displayed on a report page, but are not in the DICOM SR file.

Vascular Vessels (Left and Right Side), Transplant Arteries, and Bladder are private sections in this release. All private code values use the Coding Scheme Designator “99SEQUOIA” or “99KINETDX”.

Notation:

< ... > indicates that the description is not the actual text displayed
[...] is additional information

The following exam reports are identified with the measurements in this appendix:

Abbreviated Exam Name	Exam Report Name
Abdomen	ABDOMINAL DUPLEX EXAM
Carotid	DUPLEX CAROTID EXAM
Lower Extremity	LOWER EXTREMITY ARTERIAL DUPLEX EXAM
TCI	TRANSCRANIAL IMAGING DUPLEX EXAM
Upper Extremity	UPPER EXTREMITY ARTERIAL DUPLEX EXAM

Measurements List 1 [L1]

Measurement Label	Code Meaning (Coding Scheme Designator, Code Value)
EDV	End Diastolic Velocity (LN, 11653-3)
PSV	Peak Systolic Velocity (LN, 11726-7)
TAMx	Time Averaged Peak Velocity (LN, 11692-1)
PI	Pulsatility Index (LN, 12008-9)
RI	Resistivity Index (LN, 12023-8)
S/D	Systolic to Diastolic Velocity Ratio (LN, 12144-2)
Patent Lumen	Vessel Lumen Diameter (SRT, G-0364)
Outer Diameter	Vessel Outside Diameter (SRT, G-0365)
	Acceleration Time (LN, 20168-1)
	Deceleration Time (LN, 20217-6)
	Minimum Diastolic Velocity (LN, 11665-7)
	Time Averaged Mean Velocity (LN, 20352-1)
	Vessel Lumen Cross-Sectional Area (SRT, G-0366)
Private Measurements	
	Acceleration Velocity (99KINETDX, AccelVelocity)
	Velocity1 (99KINETDX, Velocity1)
	Velocity2 (99KINETDX, Velocity2)
	Vessel Outer Area (99KINETDX, OuterArea)

Measurement Label: Associated Angle	Code Meaning (Coding Scheme Designator, Code Value)
EDV (<angle>)	End Diastolic Velocity Angle (99KINETDX, AngleEDV)
PSV (<angle>)	Peak Systolic Velocity Angle (99KINETDX, AnglePSV)
TAMx (<angle>)	Time Averaged Peak Velocity Angle (99KINETDX, AngleTAMx)
	Acceleration Time Angle (99KINETDX, AngleAccelTime)
	Deceleration Time Angle (99KINETDX, AngleDecelTime)
	Minimum Diastolic Velocity Angle (99KINETDX, AngleMinDV)
	Time Averaged Mean Velocity Angle (99KINETDX, AngleTAMn)
Private Measurements	
	Acceleration Velocity Angle (99KINETDX, AngleAccelVel)
	Velocity 1 Angle (99KINETDX, AngleVel1)
	Velocity 2 Angle (99KINETDX, AngleVel2)

Measurements List 2 [L2]

Measurement Label	Code Meaning (Coding Scheme Designator, Code Value)
EDV	End Diastolic Velocity (LN, 11653-3)
PSV	Peak Systolic Velocity (LN, 11726-7)
TAMx	Time Averaged Peak Velocity (LN, 11692-1)
PI	Pulsatility Index (LN, 12008-9)
RI	Resistivity Index (LN, 12023-8)
S/D	Systolic to Diastolic Velocity Ratio (LN, 12144-2)

Measurement Label: Associated Angle	Code Meaning (Coding Scheme Designator, Code Value)
EDV (<angle>)	End Diastolic Velocity Angle (99KINETDX, AngleEDV)
PSV (<angle>)	Peak Systolic Velocity Angle (99KINETDX, AnglePSV)
TAMx (<angle>)	Time Averaged Peak Velocity Angle (99KINETDX, AngleTAMx)

TID5100: Vascular Ultrasound Report

13.1 Patient Characteristics

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Patient Characteristics	Container: Patient Characteristics (DCM, 121118)	
Age	Subject Age (DCM, 121033)	
Sex	Subject Sex (DCM, 121032)	
HR	Heart Rate (LN, 8867-4)	
BP	Systolic Blood Pressure (SRT, F-008EC)	
	Diastolic Blood Pressure (SRT, F-008ED)	
Private Characteristics		
Indications	Comment (DCM, 121106)	
Height	Patient Height (LN, 8302-2)	
Weight	Patient Weight (LN, 29463-7)	

13.2 Blood Vessels of Head (Left Intracranial Cerebral Vessels)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Blood Vessel of Head (Left Intracranial Cerebral Vessels)	Finding Site: Blood Vessel of Head (SRT, T-40501)	Laterality: Left (SRT, G-A101)
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, ACA -- PSV, EDV, S/D, PI, RI, TAMx	Location: Anterior Cerebral Artery (SRT, T-45540) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, ACoA -- PSV, EDV, S/D, PI, RI, TAMx	Location: Anterior Communicating Artery (SRT, T-45530) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: LEFT TRANSORBITAL and VERTEBRAL ARTERIES, Lt Carotid Siphon -- PSV, EDV, S/D, PI, RI, TAMx	Location: Carotid Siphon (SRT, T-45308) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, ICA Dist -- PSV, EDV, S/D, PI, RI, TAMx	Location: Internal Carotid Artery (SRT, T-45300) [Measurements List: L2]	Laterality: Left (SRT, G-A101) Topographical Modifier: Distal (SRT, G-A119)
	Location: Middle Cerebral Artery (SRT, T-45600) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
TCI: LEFT TRANSORBITAL and VERTEBRAL ARTERIES, Lt Ophthalmic Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Ophthalmic Artery (SRT, T-45400) [Measurements List: L2]	Laterality: Left (SRT, G-A101)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, PCoA -- PSV, EDV, S/D, PI, RI, TAMx	Location: Posterior Communicating Artery (SRT, T-45320) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
Private Vessels		
TCI: LEFT MCA, Depth 1 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 1 (99KINETDX, MCADepth1) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: LEFT MCA, Depth 2 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 2 (99KINETDX, MCADepth2) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: LEFT MCA, Depth 3 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 3 (99KINETDX, MCADepth3) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: LEFT MCA, Depth 4 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 4 (99KINETDX, MCADepth4) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: LEFT MCA, Depth 5 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 5 (99KINETDX, MCADepth5) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, PCA P1 -- PSV, EDV, S/D, PI, RI, TAMx	Location: Posterior Cerebral Artery, P1 (99KINETDX, PCAP1) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, PCA P2 -- PSV, EDV, S/D, PI, RI, TAMx	Location: Posterior Cerebral Artery, P2 (99KINETDX, PCAP2) [Measurements List: L2]	Laterality: Left (SRT, G-A101)

13.3 Blood Vessel of Head (Right Intracranial Cerebral Vessels)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Blood Vessel of Head (Right Intracranial Cerebral Vessels)	Finding Site: Blood Vessel of Head (SRT, T-40501)	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, ACA -- PSV, EDV, S/D, PI, RI, TAMx	Location: Anterior Cerebral Artery (SRT, T-45540) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, ACoA -- PSV, EDV, S/D, PI, RI, TAMx	Location: Anterior Communicating Artery (SRT, T-45530) [Measurements List: L2]	Laterality: Right (SRT, G-A100)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
TCI: RIGHT TRANSORBITAL and VERTEBRAL ARTERIES, Rt Carotid Siphon -- PSV, EDV, S/D, PI, RI, TAMx	Location: Carotid Siphon (SRT, T-45308) [Measurements List: L1]	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, ICA Dist -- PSV, EDV, S/D, PI, RI, TAMx	Location: Internal Carotid Artery (SRT, T-45300) [Measurements List: L2]	Laterality: Right (SRT, G-A100) Topographical Modifier: Distal (SRT, G-A119)
	Location: Middle Cerebral Artery (SRT, T-45600) [Measurements List: L1]	Laterality: Right (SRT, G-A100)
TCI: RIGHT TRANSORBITAL and VERTEBRAL ARTERIES, Rt Ophthalmic Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Ophthalmic Artery (SRT, T-45400) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, PCoA -- PSV, EDV, S/D, PI, RI, TAMx	Location: Posterior Communicating Artery (SRT, T-45320) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
Private Vessels		
TCI: RIGHT MCA, Depth 1 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 1 (99KINETDX, MCADepth1) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: RIGHT MCA, Depth 2 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 2 (99KINETDX, MCADepth2) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: RIGHT MCA, Depth 3 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 3 (99KINETDX, MCADepth3) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: RIGHT MCA, Depth 4 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 4 (99KINETDX, MCADepth4) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: RIGHT MCA, Depth 5 -- PSV, EDV, S/D, PI, RI, TAMx	Middle Cerebral Artery, Depth 5 (99KINETDX, MCADepth5) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, PCA P1 -- PSV, EDV, S/D, PI, RI, TAMx	Location: Posterior Cerebral Artery, P1 (99KINETDX, PCAP1) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, PCA P2 -- PSV, EDV, S/D, PI, RI, TAMx	Location: Posterior Cerebral Artery, P2 (99KINETDX, PCAP2) [Measurements List: L2]	Laterality: Right (SRT, G-A100)

13.4 Blood Vessel of Head (Unilateral Intracranial Cerebral Vessels)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Blood Vessel of Head (Unilateral Intracranial Cerebral Vessels)	Finding Site: Blood Vessel of Head (SRT, T-40501)	Laterality: Unilateral (SRT, G-A103)
TCI: BASILAR ARTERY, Basilar Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Basilar Artery (SRT, T-45800) [Measurements List: L2]	Laterality: Unilateral (SRT, G-A103)

13.5 Artery of Neck (Left Extracranial Arteries, Carotid Ratios)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Neck (Left Extracranial Arteries, Carotid Ratios)	Finding Site: Artery of Neck (SRT, T-45005)	Laterality: Left (SRT, G-A101)
Carotid: Side, LEFT -- IC/CC RATIO	ICA/CCA velocity ratio (LN, 33868-1)	Laterality: Left (SRT, G-A101)
TCI: OTHER LEFT TRANSTEMPORAL VESSELS, Carotid Bifur -- PSV, EDV, S/D, PI, RI, TAMx	Location: Carotid Bifurcation (SRT, T-45160) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
Carotid: LEFT, BULB -- PSV, EDV	Location: Carotid Bulb (SRT, T-45170) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
	Location: Common Carotid Artery (SRT, T-45100)	Laterality: Left (SRT, G-A101)
	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity (LN, 11726-7)	
Carotid: LEFT, CCA P -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Carotid: LEFT, CCA M -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid: LEFT, CCA D -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: External Carotid Artery (SRT, T-45200)	Laterality: Left (SRT, G-A101)
Carotid: LEFT, ECA -- EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Carotid: LEFT, ECA -- PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Internal Carotid Artery (SRT, T-45300)	Laterality: Left (SRT, G-A101)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
Carotid: LEFT, ICA P -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Carotid: LEFT, ICA M -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid: LEFT, ICA D -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Carotid: LEFT, SUBCL -- EDV	Location: Subclavian Artery (SRT, T-46100) Measurement: End Diastolic Velocity (LN, 11653-3)	Laterality: Left (SRT, G-A101)
Carotid: LEFT, SUBCL -- PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Carotid: LEFT, VERT A -- PSV, EDV TCI: LEFT TRANSORBITAL and VERTEBRAL ARTERIES, Lt Vertebral Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Vertebral Artery (SRT, T-45700)	Laterality: Left (SRT, G-A101)
Private Vessels		
	Location: Internal Carotid Artery Jaw (99KINETDX, ICAJaw)	
	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity (LN, 11726-7)	

13.6 Artery of Neck (Right Extracranial Arteries, Carotid Ratios)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Neck (Right Extracranial Arteries, Carotid Ratios)	Finding Site: Artery of Neck (SRT, T-45005)	Laterality: Right (SRT, G-A100)
Carotid: Side, RIGHT -- IC/CC RATIO	ICA/CCA velocity ratio (LN, 33868-1)	Laterality: Right (SRT, G-A100)
TCI: OTHER RIGHT TRANSTEMPORAL VESSELS, Carotid Bifur -- PSV, EDV, S/D, PI, RI, TAMx	Location: Carotid Bifurcation (SRT, T-45160) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
Carotid: RIGHT, BULB -- PSV, EDV	Location: Carotid Bulb (SRT, T-45170) [Measurements List: L1]	Laterality: Right (SRT, G-A100)
	Location: Common Carotid Artery (SRT, T-45100)	Laterality: Right (SRT, G-A100)
	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity (LN, 11726-7)	
Carotid: RIGHT, CCA P -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Carotid: RIGHT, CCA M -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid: RIGHT, CCA D -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Carotid: RIGHT ECA -- EDV	Location: External Carotid Artery (SRT, T-45200) Measurement: End Diastolic Velocity (LN, 11653-3)	Laterality: Right (SRT, G-A100)
Carotid: RIGHT, ECA -- PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Internal Carotid Artery (SRT, T-45300) Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	Laterality: Right (SRT, G-A100)
Carotid: RIGHT, ICA P -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Carotid: RIGHT, ICA M -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Carotid: RIGHT, ICA D -- PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Carotid: RIGHT, EDV, SUBCL -- PSV, EDV Upper Arterial: Right Upper Extremity -- Subclavian EDV	Location: Subclavian Artery (SRT, T-46100) Measurement: End Diastolic Velocity (LN, 11653-3)	Laterality: Right (SRT, G-A100)
Carotid: RIGHT, PSV, SUBCL -- PSV, EDV Upper Arterial: Right Upper Extremity -- Subclavian PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Carotid: RIGHT, VERT A -- PSV, EDV TCI: RIGHT TRANSORBITAL and VERTEBRAL ARTERIES, Rt Vertebral Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Vertebral Artery (SRT, T-45700) [Measurements List: L1]	Laterality: Right (SRT, G-A100)
Private Vessels		
	Location: Internal Carotid Artery Jaw (99KINETDX, ICAJaw)	Laterality: Right (SRT, G-A100)
	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity (LN, 11726-7)	

13.7 Artery of Lower Extremity (Left Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Lower Extremity (Left Side)	Finding Site: Artery of Lower Extremity (SRT, T-47040)	Laterality: Left (SRT, G-A101)
	Location: Anterior Tibial Artery (SRT, T-47700)	Laterality: Left (SRT, G-A101)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Lower Arterial: Left Lower Extremity -- ATA prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Left Lower Extremity -- ATA mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Left Lower Extremity -- ATA dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Common Femoral Artery (SRT, T-47400)	Laterality: Left (SRT, G-A101)
Lower Arterial: Left Lower Extremity -- CFA EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
Lower Arterial: Left Lower Extremity -- CFA PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Common Iliac Artery (SRT, T-46710)	Laterality: Left (SRT, G-A101)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Aneurysm Patent Lumen (99KINETDX, AneurysmPatLum)	
Abdomen: Aorta, Lt Iliac Prox -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Abdomen: Aorta, Lt Iliac Dist -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Dorsalis Pedis Artery (SRT, T-47741) [Measurements List: L1]	Laterality: Left (SRT, G-A101)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Lower Arterial: Left Lower Extremity -- Ext Iliac dst PSV, EDV	Location: External Iliac Artery (SRT, T-46910)	Laterality: Left (SRT, G-A101)
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Internal Iliac Artery (SRT, T-46740)	Laterality: Left (SRT, G-A101)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Peroneal Artery (SRT, T-47630)	Laterality: Left (SRT, G-A101)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Lower Arterial: Left Lower Extremity -- PERON prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Left Lower Extremity -- PERON mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Left Lower Extremity -- PERON dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Lower Arterial: Left Lower Extremity -- POP EDV	Location: Popliteal Artery (SRT, T-47500)	Laterality: Left (SRT, G-A101)
	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Peak Systolic Velocity (LN, 11726-7)	
Lower Arterial: Left Lower Extremity -- POP PSV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Lower Arterial: Left Lower Extremity -- PTA prx PSV, EDV	Location: Posterior Tibial Artery (SRT, T-47600)	Laterality: Left (SRT, G-A101)
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Lower Arterial: Left Lower Extremity -- PTA mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Left Lower Extremity -- PTA dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Lower Arterial: Left Lower Extremity -- PRO FEM PSV, EDV	Location: Profunda Femoris Artery (SRT, T-47440) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
	Location: Superficial Femoral Artery (SRT, T-47403)	Laterality: Left (SRT, G-A101)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
Lower Arterial: Left Lower Extremity -- SFA prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Left Lower Extremity -- SFA mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Left Lower Extremity -- SFA dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Private Vessels and Additional Measurements		
Lower Arterial: Left Lower Extremity -- TP Trunk PSV, EDV	Location: Tibioperoneal Trunk (99KINETDX, TPTrunk) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
	Location: Ankle Brachial (99KINETDX, AnkleBrachial)	Laterality: Left (SRT, G-A101)
	Measurement: Indices (99KINETDX, Indices)	
	Measurement: Max Ankle BP/Brachial BP (99KINETDX, MaxABPBBPRatio)	
	Location: Ankle (99KINETDX, Ankle)	Laterality: Left (SRT, G-A101)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Location: Toe Brachial (99KINETDX, ToeBrachial)	Laterality: Left (SRT, G-A101)
	Measurement: Indices (99KINETDX, Indices)	
	Location: Toe (99KINETDX, Toe)	Laterality: Left (SRT, G-A101)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	

13.8 Artery of Lower Extremity (Right Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Lower Extremity (Left Side)	Finding Site: Artery of Lower Extremity (SRT, T-47040)	Laterality: Right (SRT, G-A100)
	Location: Anterior Tibial Artery (SRT, T-47700)	Laterality: Right (SRT, G-A100)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Lower Arterial: Right Lower Extremity -- ATA prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Right Lower Extremity -- ATA mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Right Lower Extremity -- ATA dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Common Femoral Artery (SRT, T-47400)	Laterality: Right (SRT, G-A100)
Lower Arterial: Right Lower Extremity -- CFA EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
Lower Arterial: Right Lower Extremity -- CFA PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Common Iliac Artery (SRT, T-46710)	Laterality: Right (SRT, G-A100)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Aneurysm Patent Lumen (99KINETDX, AneurysmPatLum)	
Abdomen: Aorta, Rt Iliac Prox -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Abdomen: Aorta, Rt Iliac Dist -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Dorsalis Pedis Artery (SRT, T-47741) [Measurements List: L1]	Laterality: Right (SRT, G-A100)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
	Location: External Iliac Artery (SRT, T-46910)	Laterality: Right (SRT, G-A100)
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Right Lower Extremity -- Ext Iliac dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Internal Iliac Artery (SRT, T-46740)	Laterality: Right (SRT, G-A100)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Peroneal Artery (SRT, T-47630)	Laterality: Right (SRT, G-A100)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Lower Arterial: Right Lower Extremity -- PERON prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Right Lower Extremity -- PERON mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Right Lower Extremity -- PERON dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Popliteal Artery (SRT, T-47500)	Laterality: Right (SRT, G-A100)
Lower Arterial: Right Lower Extremity -- POP EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
Lower Arterial: Right Lower Extremity -- POP PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
	Location: Posterior Tibial Artery (SRT, T-47600)	Laterality: Right (SRT, G-A100)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Lower Arterial: Right Lower Extremity -- PTA prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Right Lower Extremity -- PTA mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Right Lower Extremity -- PTA dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Lower Arterial: Right Lower Extremity -- PRO FEM PSV, EDV	Location: Profunda Femoris Artery (SRT, T-47440)	Laterality: Right (SRT, G-A100)
	[Measurements List: L1]	
	Location: Superficial Femoral Artery (SRT, T-47403)	Laterality: Right (SRT, G-A100)
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
Lower Arterial: Right Lower Extremity -- SFA prx PSV, EDV	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Lower Arterial: Right Lower Extremity -- SFA mid PSV, EDV	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Lower Arterial: Right Lower Extremity -- SFA dst PSV, EDV	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Private Vessels and Additional Measurements		
Lower Arterial: Right Lower Extremity -- TP Trunk PSV, EDV	Location: Tibioperoneal Trunk (99KINETDX, TPTrunk)	Laterality: Right (SRT, G-A100)
	[Measurements List: L1]	
	Location: Ankle Brachial (99KINETDX, AnkleBrachial)	Laterality: Right (SRT, G-A100)
	Measurement: Indices (99KINETDX, Indices)	
	Measurement: Max Ankle BP/Brachial BP (99KINETDX, MaxABPBPRatio)	
	Location: Ankle (99KINETDX, Ankle)	Laterality: Right (SRT, G-A100)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
	Measurement: Peak Systolic Velocity, Maximum (99KINETDX, MaxPSV)	
	Location: Toe Brachial (99KINETDX, ToeBrachial)	Laterality: Right (SRT, G-A100)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
	Measurement: Indices (99KINETDX, Indices)	
	Location: Toe (99KINETDX, Toe)	Laterality: Right (SRT, G-A100)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	

13.9 Artery of Upper Extremity (Left Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Upper Extremity (Left Side)	Finding Site: Artery of Upper Extremity (SRT, T-47020)	Laterality: Left (SRT, G-A101)
	Location: Axillary Artery (SRT, T-47100)	Laterality: Left (SRT, G-A101)
Upper Arterial: Left Upper Extremity -- Axillary EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Left Upper Extremity -- Axillary PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Brachial Artery (SRT, T-47160)	Laterality: Left (SRT, G-A101)
Upper Arterial: Left Upper Extremity -- Brachial EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Left Upper Extremity -- Brachial PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Radial Artery (SRT, T-47300)	Laterality: Left (SRT, G-A101)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Upper Arterial: Left Upper Extremity -- Radial EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Left Upper Extremity -- Radial PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Ulnar Artery (SRT, T-47200)	Laterality: Left (SRT, G-A101)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
Upper Arterial: Left Upper Extremity -- Ulnar EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Left Upper Extremity -- Ulnar PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Private Vessels and Additional Measurements		
	Antecube Artery (99KINETDX, AntecubeArtery)	Laterality: Left (SRT, G-A101)
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Systolic Brachial BP/Systolic Radial BP (99KINETDX, BBPRBPDiff)	Laterality: Left (SRT, G-A101)
	Systolic Brachial BP/Systolic Ulnar BP (99KINETDX, BBPUBPDiff)	Laterality: Left (SRT, G-A101)
	Digit Brachial (99KINETDX, DigitBrachial)	Laterality: Left (SRT, G-A101)
	Measurement: Indices (99KINETDX, Indices)	
	Location: Digit (99KINETDX, Digit)	Laterality: Left (SRT, G-A101)
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	

13.10 Artery of Upper Extremity (Right Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Upper Extremity (Right Side)	Finding Site: Artery of Upper Extremity (SRT, T-47020)	Laterality: Right (SRT, G-A100)
	Location: Axillary Artery (SRT, T-47100)	Laterality: Right (SRT, G-A100)
Upper Arterial: Right Upper Extremity -- Axillary EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Right Upper Extremity -- Axillary PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Upper Arterial: Right Upper Extremity -- Brachial EDV	Location: Brachial Artery (SRT, T-47160) Measurement: End Diastolic Velocity (LN, 11653-3)	Laterality: Right (SRT, G-A100)
Upper Arterial: Right Upper Extremity -- Brachial PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	Measurement: Systolic Blood Pressure (SRT, F-008EC)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Carotid: RIGHT, INNOM	Location: Innominate Artery (SRT, T-46010) [Measurements List: L1]	Laterality: Right (SRT, G-A100)
	Location: Radial Artery (SRT, T-47300) Measurement: Systolic Blood Pressure (SRT, F-008EC)	Laterality: Right (SRT, G-A100)
Upper Arterial: Right Upper Extremity -- Radial EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Right Upper Extremity -- Radial PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Ulnar Artery (SRT, T-47200) Measurement: Systolic Blood Pressure (SRT, F-008EC)	Laterality: Right (SRT, G-A100)
Upper Arterial: Right Upper Extremity -- Ulnar EDV	Measurement: End Diastolic Velocity (LN, 11653-3)	
Upper Arterial: Right Upper Extremity -- Ulnar PSV	Measurement: Peak Systolic Velocity (LN, 11726-7)	
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Private Vessels and Additional Measurements		
	Antecube Artery (99KINETDX, AntecubeArtery)	Laterality: Right (SRT, G-A100)
	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
	Systolic Brachial BP/Systolic Radial BP (99KINETDX, BBPRBPDiff)	Laterality: Right (SRT, G-A100)
	Systolic Brachial BP/Systolic Ulnar BP (99KINETDX, BBPUBPDiff)	Laterality: Right (SRT, G-A100)
	Digit Brachial (99KINETDX, DigitBrachial) Measurement: Indices (99KINETDX, Indices)	Laterality: Right (SRT, G-A100)
	Location: Digit (99KINETDX, Digit) Measurement: Systolic Blood Pressure (SRT, F-008EC)	Laterality: Right (SRT, G-A100)

13.11 Vascular Structure of Kidney (Left Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Vascular Structure of Kidney (Left Side)	Finding Site: Vascular Structure Of Kidney (SRT, T-71019)	Laterality: Left (SRT, G-A101)
Abdomen: Renal/Aortic Ratio, Left -- Ratio	Measurement: Renal Artery/Aorta Velocity Ratio (LN, 33869-9)	Laterality: Left (SRT, G-A101)
Abdomen: Lt Renal Arteries, Lt Renal Art Prox -- PSV, EDV, S/D, PI, RI, TAMx	Location: Renal Artery (SRT, T-46600) [Measurements List: L1]	Laterality: Left (SRT, G-A101) Topographical Modifier: Proximal (SRT, G-A118)
Abdomen: Lt Renal Arteries, Lt Renal Art Mid -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Abdomen: Lt Renal Arteries, Lt Renal Art Dist -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Abdomen: Lt Renal Arteries, Lt Hilar Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Hilar Artery (SRT, G-035C) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
	Location: Segmental Artery (SRT, T-46659) [Measurements List: L1]	Laterality: Left (SRT, G-A101)
	[Measurements List: L1]	Vessel Branch: Inferior (SRT, G-A115)
	[Measurements List: L1]	Vessel Branch: Medial (SRT, G-A109)
	[Measurements List: L1]	Vessel Branch: Superior (SRT, G-A116)
Abdomen: Lt Renal Arteries, Lt Arcuate Art Inf -- PSV, EDV, S/D, PI, RI, TAMx	Location: Arcuate Artery of the Kidney (SRT, T-4668A) [Measurements List: L1]	Laterality: Left (SRT, G-A101) Vessel Branch: Inferior (SRT, G-A115)
Abdomen: Lt Renal Arteries, Lt Arcuate Art Med -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Vessel Branch: Medial (SRT, G-A109)
Abdomen: Lt Renal Arteries, Lt Arcuate Art Sup -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Vessel Branch: Superior (SRT, G-A116)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Private Measurements		
Abdomen: Renal Dimensions, Left Kidney -- Height	Kidney Height (99KINETDX, LKidneyHeight)	Laterality: Left (SRT, G-A101)
Abdomen: Renal Dimensions, Left Kidney -- Length	Kidney Length (99KINETDX, LKidneyLength)	Laterality: Left (SRT, G-A101)
Abdomen: Renal Dimensions, Left Kidney -- Width	Kidney Width (99KINETDX, LKidneyWidth)	Laterality: Left (SRT, G-A101)

13.12 Vascular Structure of Kidney (Right Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Vascular Structure of Kidney (Right Side)	Finding Site: Vascular Structure Of Kidney (SRT, T-71019)	Laterality: Right (SRT, G-A100)
Abdomen: Renal/Aortic Ratio, Right -- Ratio	Measurement: Renal Artery/Aorta Velocity Ratio (LN, 33869-9)	Laterality: Right (SRT, G-A100)
	Location: Renal Artery (SRT, T-46600)	Laterality: Right (SRT, G-A100)
Abdomen: Rt Renal Arteries, Rt Renal Art Prox -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Abdomen: Rt Renal Arteries, Rt Renal Art Mid -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Abdomen: Rt Renal Arteries, Rt. Renal Art Dist -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Abdomen: Rt Renal Arteries, Rt Hilar Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Hilar Artery (SRT, G-035C)	Laterality: Right (SRT, G-A100)
	[Measurements List: L1]	
	Location: Segmental Artery (SRT, T-46659)	Laterality: Right (SRT, G-A100)
	[Measurements List: L1]	Vessel Branch: Inferior (SRT, G-A115)
	[Measurements List: L1]	Vessel Branch: Medial (SRT, G-A109)
	[Measurements List: L1]	Vessel Branch: Superior (SRT, G-A116)
	Location: Arcuate Artery of the Kidney (SRT, T-4668A)	Laterality: Right (SRT, G-A100)
Abdomen: Rt Renal Arteries, Rt Arcuate Art Inf -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Vessel Branch: Inferior (SRT, G-A115)
Abdomen: Rt Renal Arteries, Rt Arcuate Art Med -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Vessel Branch: Medial (SRT, G-A109)
Abdomen: Rt Renal Arteries, Rt Arcuate Art Sup -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Vessel Branch: Superior (SRT, G-A116)
Private Measurements		
Abdomen: Renal Dimensions, Right Kidney -- Height	Kidney Height (99KINETDX, LKidneyHeight)	Laterality: Right (SRT, G-A100)
Abdomen: Renal Dimensions, Right Kidney -- Length	Kidney Length (99KINETDX, LKidneyLength)	Laterality: Right (SRT, G-A100)
Abdomen: Renal Dimensions, Right Kidney -- Width	Kidney Width (99KINETDX, LKidneyWidth)	Laterality: Right (SRT, G-A100)

13.13 Artery of Abdomen (Left Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Abdomen (Left Side)	Finding Site: Artery of Abdomen (SRT, T-46002)	Laterality: Left (SRT, G-A101)
Abdomen: Hepatic Arteries, Left Hep Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Common Hepatic Artery (SRT, T-46421) [Measurements List: L2]	Laterality: Left (SRT, G-A101)

13.14 Artery of Abdomen (Right Side)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Abdomen (Right Side)	Finding Site: Artery of Abdomen (SRT, T-46002)	Laterality: Right (SRT, G-A100)
Abdomen: Hepatic Arteries, Right Hep Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Common Hepatic Artery (SRT, T-46421) [Measurements List: L2]	Laterality: Right (SRT, G-A100)

13.15 Artery of Abdomen (Unilateral)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Artery of Abdomen (Unilateral)	Finding Site: Artery of Abdomen (SRT, T-46002)	Laterality: Unilateral (SRT, G-C171)
	Location: Aorta (SRT, T-42000)	Laterality: Unilateral (SRT, G-C171)
	Measurement: Aneurysm Outer Dimension (99KINETDX, AneurysmOuterDim)	Topographical Modifier: Proximal (SRT, G-A118)
	Measurement: Aneurysm Outer Dimension (99KINETDX, AneurysmOuterDim)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	Measurement: Aneurysm Outer Dimension (99KINETDX, AneurysmOuterDim)	Topographical Modifier: Distal (SRT, G-A119)
	Measurement: Aneurysm Patent Lumen (99KINETDX, AneurysmPatLum)	Topographical Modifier: Proximal (SRT, G-A118)
	Measurement: Aneurysm Patent Lumen (99KINETDX, AneurysmPatLum)	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	Measurement: Aneurysm Patent Lumen (99KINETDX, AneurysmPatLum)	Topographical Modifier: Distal (SRT, G-A119)
Abdomen: Aorta, Prox Ao -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Abdomen: Aorta, Mid Ao -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Abdomen: Aorta, Dist Ao -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
	Location: Infra-renal Aorta (SRT, T-42520) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)
Abdomen: Aorta, Supra Ren Ao -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	Location: Supra-renal Aorta (SRT, T-42510) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)
Abdomen: Aorta, Celiac Axis -- PSV, EDV, S/D, Outer Diameter, Patent Lumen	Location: Celiac Axis (SRT, T-46400) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)
	Location: Common Hepatic Artery (SRT, T-46421) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)
	Location: Gastroduodenal Artery (SRT, T-46440) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)
	Location: Inferior Mesenteric Artery (SRT, T-46520)	Laterality: Unilateral (SRT, G-C171)
Abdomen: Mesenteric Arteries, IMA Prox -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)
Abdomen: Hepatic Arteries, Splenic Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Splenic Artery (SRT, T-46460) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)
	Location: Superior Mesenteric Artery (SRT, T-46510)	Laterality: Unilateral (SRT, G-C171)
Abdomen: Mesenteric Arteries, SMA Prox -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Proximal (SRT, G-A118)
Abdomen: Mesenteric Arteries, SMA Mid -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Mid-longitudinal (SRT, G-A188)
Abdomen: Mesenteric Arteries, SMA Dist -- PSV, EDV, S/D, PI, RI, TAMx	[Measurements List: L1]	Topographical Modifier: Distal (SRT, G-A119)

13.16 Vein of Abdomen (Unilateral)

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Vein of Abdomen (Unilateral)	Finding Site: Vein of Abdomen (SRT, T-487A0)	Laterality: Unilateral (SRT, G-C171)
	Location: Transjugular Intrahepatic Portosystemic Shunt (SRT, G-036C) [Measurements List: L1]	Laterality: Unilateral (SRT, G-C171)

13.17 Private Section: Vascular Vessels (Left Side)

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Vascular Vessels (Left Side)	Container: Vascular Vessels (99KINETDX, sDVascVessels)	Laterality: Left (SRT, G-A101)
	Location: Vascular Vessel N (99KINETDX, sDVascV<N>) where <N> = 1 to 10 e.g. Vascular Vessel 1 (99KINETDX, sDVascV1) [Measurements List: L1]	Laterality: Left (SRT, G-A101)

13.18 Private Section: Vascular Vessels (Right Side)

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Vascular Vessels (Right Side)	Container: Vascular Vessels (99KINETDX, sDVascVessels)	Laterality: Right (SRT, G-A100)
	Location: Vascular Vessel N (99KINETDX, sDVascV<N>) where <N> = 1 to 10 e.g. Vascular Vessel 1 (99KINETDX, sDVascV1) [Measurements List: L1]	Laterality: Right (SRT, G-A100)

13.19 Private Section: Transplant Arteries

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Transplant Arteries	Container: Transplant Arteries (99KINETDX, TransplantA)	
Abdomen: Anastomosis Arteries, Left Anast Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Anastomosis Artery (99KINETDX, AnastArtery) [Measurements List: L2]	Laterality: Left (SRT, G-A101)
Abdomen: Anastomosis Arteries, Right Anast Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Anastomosis Artery (99KINETDX, AnastArtery) [Measurements List: L2]	Laterality: Right (SRT, G-A100)
Abdomen: Anastomosis Arteries, Hepatic Donor Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Hepatic Donor Artery (99KINETDX, HepaticDonorA) [Measurements List: L2]	

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Abdomen: Anastomosis Arteries, Renal Donor Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Renal Donor Artery (99KINETDX, RenalDonorA) [Measurements List: L2]	
Abdomen: Anastomosis Arteries, Renal Transplant Art -- PSV, EDV, S/D, PI, RI, TAMx	Location: Renal Transplant Artery (99KINETDX, RenalDonorA) [Measurements List: L2]	

13.20 Private Section: Bladder

Label Exam: Headings -- Measurements	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Bladder	Container: Bladder (99KINETDX, Bladder)	
Abdomen: Bladder VOLUME, PRE VOID -- HEIGHT	Prevoid Bladder Height (99KINETDX, PrevoidBladHt)	
Abdomen: Bladder VOLUME, PRE VOID -- LENGTH	Prevoid Bladder Length (99KINETDX, PrevoidBladLen)	
Abdomen: Bladder VOLUME, PRE VOID -- WIDTH	Prevoid Bladder Width (99KINETDX, PrevoidBladWidth)	
Abdomen: Bladder VOLUME, POST VOID -- HEIGHT	Postvoid Bladder Height (99KINETDX, PostvoidBladHt)	
Abdomen: Bladder VOLUME, POST VOID -- LENGTH	Postvoid Bladder Length (99KINETDX, PostvoidBladLen)	
Abdomen: Bladder VOLUME, POST VOID -- WIDTH	Postvoid Bladder Width (99KINETDX, PostvoidBladWidth)	

14. Appendix D: Echocardiography Structured Report

This appendix lists the DICOM Structured Report (SR) mappings used in the Echocardiography Structured Reports of Sequoia DICOM SR files.

The mappings are organized in a manner similar to the DICOM SR Templates as described in PS 3.16-2004 of the DICOM Standard. The "Label" column identifies the on-screen label associated with a measurement. All private code values use the Coding Scheme Designator "99SEQUOIA".

The Vascular Report mappings follow the DICOM SR Template TID 5200: Echocardiography Procedure Report, except where noted. This appendix contains the list of supported cardiac measurements. Clips References, Coronary Artery, and Generic Site Measurements are private sections in this release. Average values that appear on the Sequoia report pages are not included in the SR.

Notation:

< ... > indicates that the description is not the actual text displayed
[...] is additional information

TID5200: Echocardiography Procedure Report

14.1 Patient Characteristics

Label	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Patient Characteristics	Container: Patient Characteristics (DCM, 121118)	
Age	Subject Age (DCM, 121033)	
Sex	Subject Sex (DCM, 121032)	
HR	Heart Rate (LN, 8867-4)	
BP	Systolic Blood Pressure (SRT, F-008EC)	
	Diastolic Blood Pressure (SRT, F-008ED)	
Private Characteristics		
Indications	Comment (DCM, 121106)	
Height	Patient Height (LN, 8302-2)	
Weight	Patient Weight (LN, 29463-7)	

14.2 Left Ventricle

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Left Ventricle	Finding Site: Left Ventricle (SRT, T-32600)	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: CI, Systemic	Cardiac Index (SRT, F-32110)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV CI, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CI, A/L, A2C	Cardiac Index (SRT, F-32110)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV CI, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CI, A/L, A4C	Cardiac Index (SRT, F-32110)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV CI, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CI, BP A/L	Cardiac Index (SRT, F-32110)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV CI, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CI, MOD, A2C	Cardiac Index (SRT, F-32110)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV CI, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CI, MOD, A4C	Cardiac Index (SRT, F-32110)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV CI, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CI, BP MOD	Cardiac Index (SRT, F-32110)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, M-mode, M-mode: LV CI	Cardiac Index (SRT, F-32110)	Image Mode: M-mode (SRT, G-0394)
VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT CI	Cardiac Index (SRT, F-32110)	Measurement Method: Doppler Volume Flow (DCM, 125219)
VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT CO	Cardiac Output (SRT, F-32100)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650) Measurement Method: Doppler Volume Flow (DCM, 125219)
VOLUME FLOW / SHUNTS, Stroke Volume, AoV: HR	Heart Rate (LN, 8867-4) [Property of associated LVOT CO]	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: CO, Systemic	Cardiac Output (SRT, F-32100)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: HR, Systemic	Heart Rate (LN, 8867-4) [Property of associated CO, Systemic]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV CO, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CO, MOD, A2C	Cardiac Output (SRT, F-32100)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: HR, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: HR [near LV CO, MOD, A2C]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV CO, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CO, MOD, A4C	Cardiac Output (SRT, F-32100)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: HR, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: HR [near LV CO, MOD, A4C]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV CO, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CO, BP MOD	Cardiac Output (SRT, F-32100)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: HR, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: HR [near LV CO, BP MOD]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
BASIC MEASUREMENTS, M-mode, M-mode: LV CO	Cardiac Output (SRT, F-32100)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)
BASIC MEASUREMENTS, M-mode, M-mode: HR [near LV CO]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV CO, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CO, A/L, A4C	Cardiac Output (SRT, F-32100)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: HR, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: HR [near LV CO, A/L, A4C]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV CO, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CO, A/L, A2C	Cardiac Output (SRT, F-32100)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: HR, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: HR [near LV CO, A/L, A2C]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV CO, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV CO, BP A/L	Cardiac Output (SRT, F-32100)	Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: HR, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: HR [near LV CO, BP A/L]	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: LVOT Area VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: Area, LVOT VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT Area	Cardiovascular Orifice Area (SRT, G-038E)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650) Image Mode: 2D-mode (SRT, G-03A2)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: LVOT Diam VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: LVOT Diam VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: Diam, LVOT VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT Diam	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LVOT Diam]	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: Diam, Systemic	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650) Image Mode: 2D-mode (SRT, G-03A2)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Diam, Systemic]	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: IVS, Diastole	Interventricular Septum Diastolic Thickness (LN, 18154-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: IVS, Diastole	Interventricular Septum Diastolic Thickness (LN, 18154-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: IVS, Diastole	Interventricular Septum Diastolic Thickness (LN, 18154-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVS, Diastole	Interventricular Septum Diastolic Thickness (LN, 18154-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVS, Diastole	Interventricular Septum Diastolic Thickness (LN, 18154-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: IVS, Diastole	Interventricular Septum Diastolic Thickness (LN, 18154-5)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: IVS % Thck	Interventricular Septum Percent Thickening (LN, 18054-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: IVS % Thck	Interventricular Septum Percent Thickening (LN, 18054-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: IVS % Thck	Interventricular Septum Percent Thickening (LN, 18054-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, M-mode, M-mode: IVS % Thck	Interventricular Septum Percent Thickening (LN, 18054-7)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: IVS, Systole	Interventricular Septum Systolic Thickness (LN, 18158-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: IVS, Systole	Interventricular Septum Systolic Thickness (LN, 18158-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: IVS, Systole	Interventricular Septum Systolic Thickness (LN, 18158-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVS, Systole	Interventricular Septum Systolic Thickness (LN, 18158-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVS, Systole	Interventricular Septum Systolic Thickness (LN, 18158-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: IVS, Systole	Interventricular Septum Systolic Thickness (LN, 18158-6)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: IVS/LVPW	Interventricular Septum to Posterior Wall Thickness Ratio (LN, 18155-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: IVS/LVPW	Interventricular Septum to Posterior Wall Thickness Ratio (LN, 18155-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: IVS/LVPW	Interventricular Septum to Posterior Wall Thickness Ratio (LN, 18155-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, M-mode, M-mode: IVS/LVPW	Interventricular Septum to Posterior Wall Thickness Ratio (LN, 18155-2)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Major, Diastole BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Major, Diastole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Major, A2C, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Major, A2C, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Major, A2C, Diastole	Left Ventricle Diastolic Major Axis (LN, 18077-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Major]	
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Major, Diastole BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Major, Diastole BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV Major, A4C, Diastole BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Major, A4C VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Major, A4C, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Major, A4C, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Major, A4C, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV Major, A4C, Diastole	Left Ventricle Diastolic Major Axis (LN, 18077-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Major]	
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Major, Diastole	Left Ventricle Diastolic Major Axis (LN, 18077-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Epi Area, psax pap BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Epi Area, psax pap	Left Ventricle Epicardial Diastolic Area psax pap view (SRT, G-0379)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LV Minor, Diastole	Left Ventricle Internal End Diastolic Dimension (LN, 29436-3)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor, Diastole]	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LV Minor, Diastole	Left Ventricle Internal End Diastolic Dimension (LN, 29436-3)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor, Diastole]	
BASIC MEASUREMENTS, M-mode, M-mode: LV, Diastole VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: LV, Diastole	Left Ventricle Internal End Diastolic Dimension (LN, 29436-3)	Image Mode: M-mode (SRT, G-0394)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV, Diastole]	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LV Minor, Systole	Left Ventricle Internal Systolic Dimension (LN, 29438-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor, Systole]	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LV Minor, Systole	Left Ventricle Internal Systolic Dimension (LN, 29438-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor, Systole]	
BASIC MEASUREMENTS, M-mode, M-mode: LV, Systole VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: LV, Systole	Left Ventricle Internal Systolic Dimension (LN, 29438-9)	Image Mode: M-mode (SRT, G-0394)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV, Systole]	
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Mass	Left Ventricle Mass (LN, 18087-7)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Mass	Left Ventricle Mass (LN, 18087-7)	Measurement Method: Left Ventricle Mass Truncated Ellipse (DCM, 125222)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LVPW, Diastole	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LVPW, Diastole	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LVPW, Diastole	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LVPW, Diastole	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LVPW, Diastole	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: LVPW, Diastole	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LVPW % Thck	Left Ventricle Posterior Wall Percent Thickening (LN, 18053-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LVPW % Thck	Left Ventricle Posterior Wall Percent Thickening (LN, 18053-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LVPW % Thck	Left Ventricle Posterior Wall Percent Thickening (LN, 18053-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, M-mode, M-mode: LVPW % Thck	Left Ventricle Posterior Wall Percent Thickening (LN, 18053-9)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LVPW, Systole	Left Ventricle Posterior Wall Systolic Thickness (LN, 18156-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LVPW, Systole	Left Ventricle Posterior Wall Systolic Thickness (LN, 18156-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LVPW, Systole	Left Ventricle Posterior Wall Systolic Thickness (LN, 18156-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LVPW, Systole	Left Ventricle Posterior Wall Systolic Thickness (LN, 18156-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LVPW, Systole	Left Ventricle Posterior Wall Systolic Thickness (LN, 18156-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: LVPW, Systole VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: LVPW, s	Left Ventricle Posterior Wall Systolic Thickness (LN, 18156-0)	Image Mode: M-mode (SRT, G-0394)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Semi-major axis ----- [HR not shown on report page]	Left Ventricle Semi-major Axis Diastolic Dimension (SRT, G-0377) Heart Rate (LN, 8867-4) [Property of associated LV Semi-major axis]	Image Mode: 2D-mode (SRT, G-03A2)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Major, Systole BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Major, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Major, A2C, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Major, A2C, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Major, A2C, Systole ----- [HR not shown on report page]	Left Ventricle Systolic Major Axis (LN, 18076-0) Heart Rate (LN, 8867-4) [Property of associated LV Major]	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Major, Systole BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Major, Systole BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV Major, A4C, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Major, A4C, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Major, A4C, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Major, A4C, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV Major, A4C, Systole ----- [HR not shown on report page]	Left Ventricle Systolic Major Axis (LN, 18076-0) Heart Rate (LN, 8867-4) [Property of associated LV Major]	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: LV Major, max	Left Ventricle Systolic Major Axis (LN, 18076-0)	Image Mode: 2D-mode (SRT, G-03A2)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Major, Systole	Left Ventricle Systolic Major Axis (LN, 18076-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Trunc Semi-major axis ----- [HR not shown on report page]	Left Ventricle Truncated Semi-major Axis Diastolic Dimension (SRT, G-0378) Heart Rate (LN, 8867-4) [Property of associated LV Trunc Semi-major axis]	Image Mode: 2D-mode (SRT, G-03A2)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Area, Diastole BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Area, Diastole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Area, A2C, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Area, A2C, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Area, A2C, Diastole ----- [HR not shown on report page]	Left Ventricular Diastolic Area (SRT, G-0375) Heart Rate (LN, 8867-4) [Property of associated LV Area]	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) ----- -----
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Area, Diastole BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Area, Diastole BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Area, A4C VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Area, A4C, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Area, A4C, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Area, A4C, Diastole ----- [HR not shown on report page]	Left Ventricular Diastolic Area (SRT, G-0375) Heart Rate (LN, 8867-4) [Property of associated LV Area]	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) ----- -----
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV Area, Diastole	Left Ventricular Diastolic Area (SRT, G-0375)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LV Area, Diastole	Left Ventricular Diastolic Area (SRT, G-0375)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
----- [HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Area]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LV Area, Diastole BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV Area, pap, Diastole BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Area, psax pap BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Area, psax pap VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV Area, pap, Diastole ----- [HR not shown on report page]	Left Ventricular Diastolic Area (SRT, G-0375) Heart Rate (LN, 8867-4) [Property of associated LV Area]	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Area, Diastole	Left Ventricular Diastolic Area (SRT, G-0375)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV Area, Diastole	Left Ventricular Diastolic Area (SRT, G-0375)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV EF, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV EF, A/L, A2C	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV EF, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV EF, A/L, A4C	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV EF, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV EF, BP A/L	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV EF, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV EF, MOD, A2C	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV EF, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV EF, MOD, A4C	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV EF, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV EF, BP MOD	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, M-mode, M-mode: LV EF	Left Ventricular Ejection Fraction (LN, 18043-0)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Vol, A/L, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A2C A/L, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A2C, d, A/L	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B); Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Vol, A/L, Diastole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A4C A/L, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A4C A/L, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A4C, d, A/L	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV Vol, d, A/L VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, BP A/L, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, BP A/L, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, d, BP A/L	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Vol, MOD, Diastole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A2C MOD, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A2C MOD, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A2C, d, MOD	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Vol]	
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Vol, MOD, Diastole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A4C MOD, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A4C MOD, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A4C, d, MOD	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Vol]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV Vol, d, MOD VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, BP MOD, Diastole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, BP MOD, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, d, BP MOD	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, M-mode, M-mode: LV Vol, Diastole	Left Ventricular End Diastolic Volume (LN, 18026-5)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Vol, A/L, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A4C A/L, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A2C A/L, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A2C, s, A/L	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Vol, A/L, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A4C A/L, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A4C A/L, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A4C, s, A/L	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV Vol, s, A/L VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, BP A/L, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, BP A/L, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, s, BP A/L	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Area-Length Biplane (DCM, 125204)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Vol, MOD, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A2C MOD, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A2C MOD, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A2C, s, MOD ----- [HR not shown on report page]	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Vol, MOD, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, A4C MOD, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, A4C MOD, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, A4C, s, MOD ----- [HR not shown on report page]	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV Vol, s, MOD VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Vol, BP MOD, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Vol, BP MOD, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Vol, s, BP MOD	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, M-mode, M-mode: LV Vol, Systole	Left Ventricular End Systolic Volume (LN, 18148-7)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV % FAC	Left Ventricular Fractional Area Change (SRT, G-0376)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV % FAC BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV % FAC	Left Ventricular Fractional Area Change (SRT, G-0376)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LV % FAC	Left Ventricular Fractional Area Change (SRT, G-0376)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LV % FAC VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV % FAC, pap	Left Ventricular Fractional Area Change (SRT, G-0376)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV % FAC	Left Ventricular Fractional Area Change (SRT, G-0376)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV % FAC	Left Ventricular Fractional Area Change (SRT, G-0376)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV % FS	Left Ventricular Fractional Shortening (LN, 18051-3)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LV % FS	Left Ventricular Fractional Shortening (LN, 18051-3)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LV % FS VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV % FS	Left Ventricular Fractional Shortening (LN, 18051-3)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, M-mode, M-mode: LV % FS VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: LV % FS	Left Ventricular Fractional Shortening (LN, 18051-3)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: LV IVRT	Left Ventricular Isovolumic Relaxation Time (LN, 18071-1)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: LV IVRT, Exp	Left Ventricular Isovolumic Relaxation Time (LN, 18071-1)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, MV: LV IVRT, Insp	Left Ventricular Isovolumic Relaxation Time (LN, 18071-1)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Area, Systole BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV Area, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Area, A2C, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Area, A2C, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Area, A2C, Systole	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Area]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Area, Systole BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV Area, Systole VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV Area, A4C, Systole VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV Area, A4C, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV Area, A4C, Systole ----- [HR not shown on report page]	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV Area, Systole	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: LV Area, Systole ----- [HR not shown on report page]	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Pap Level: LV Area, Systole BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV Area, pap, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV Area, pap, Systole ----- [HR not shown on report page]	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Area, Systole	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV Area, Systole	Left Ventricular Systolic Area (SRT, G-0374)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: Vmax, LVOT ----- [HR not shown on report page]	Peak Systolic Velocity (LN, 11726-7)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: SI, Systemic	Stroke Index (SRT, F-00078)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV SI, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SI, A/L, A2C	Stroke Index (SRT, F-00078)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Area-Length Single Plane (DCM, 125205)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV SI, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SI, A/L, A4C	Stroke Index (SRT, F-00078)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV SI, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SI, BP A/L	Stroke Index (SRT, F-00078)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV SI, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SI, MOD, A2C	Stroke Index (SRT, F-00078)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV SI, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SI, MOD, A4C	Stroke Index (SRT, F-00078)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV SI, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SI, BP MOD	Stroke Index (SRT, F-00078)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, M-mode, M-mode: LV SI	Stroke Index (SRT, F-00078)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)
VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT SV	Stroke Volume (SRT, F-32120)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV SV, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SV, A/L, A2C	Stroke Volume (SRT, F-32120)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV SV, A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SV, A/L, A4C	Stroke Volume (SRT, F-32120)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV SV, A/L VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV SV, BP A/L VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV SV, BP A/L VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SV, BP A/L	Stroke Volume (SRT, F-32120)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Area-Length Biplane (DCM, 125204)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV, A2C: LV SV, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SV, MOD, A2C	Stroke Volume (SRT, F-32120)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV, A4C: LV SV, MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SV, MOD, A4C	Stroke Volume (SRT, F-32120)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LV Biplane Volumes: LV SV, MOD VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: LV SV, BP MOD VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: LV SV, BP MOD VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, Apical: LV SV, BP MOD	Stroke Volume (SRT, F-32120)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, M-mode, M-mode: LV SV	Stroke Volume (SRT, F-32120)	Image Mode: M-mode (SRT, G-0394) Measurement Method: Teichholz (DCM, 125209)
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: LVOT SV VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: SV, LVOT	Stroke Volume (SRT, F-32120)	Measurement Method: Doppler Volume Flow (DCM, 125219)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: Vmean, LVOT ----- [HR not shown on report page]	Time Averaged Mean Velocity (LN, 20352-1) Heart Rate (LN, 8867-4) [Property of associated Vmean, LVOT]	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: VTI, LVOT VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT VTI ----- [HR not shown on report page]	Velocity Time Integral (LN, 20354-7) Heart Rate (LN, 8867-4) [Property of associated VTI, LVOT]	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: VTI, Systemic ----- [HR not shown on report page]	Velocity Time Integral (LN, 20354-7) Heart Rate (LN, 8867-4) [Property of associated VTI, Systemic]	
Private Measurements		
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV CI, Bullet VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV CI	Cardiac Index (SRT, F-32110)	Measurement Method: Bullet (99SEQUOIA, Bullet)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV CO, Bullet VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV CO	Cardiac Output (SRT, F-32100)	Measurement Method: Bullet (99SEQUOIA, Bullet)
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: HR VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: HR	Heart Rate (LN, 8867-4) [Property of associated LV CO]	
BASIC MEASUREMENTS, M-mode, M-mode: PE, d	Diameter Pericardial Effusion (99SEQUOIA, DiamPe)	Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, M-mode, M-mode: EPSS/LVEDD VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: EPSS/LVEDD	EPSS/LVEDD (99SEQUOIA, RATIOepss_lvedd)	
BASIC MEASUREMENTS, M-mode, M-mode: HR [near Mean Vcfc] VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: HR [near Mean Vcfc]	HR mean, Mean Velocity of Circumferential, Corrected, M-mode (99SEQUOIA, HRmnvcfcmmode)	
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Major	Left Ventricle Diastolic Major Axis (LN, 18077-8)	Derivation: Maximum (SRT, G-A437)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Mass/BSA	Left Ventricle Mass (LN, 18087-7)	Measurement Method: Area-Length Single Plane (DCM, 125205) Index: Body Surface Area (LN, 8277-6) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Mass/Ht	Left Ventricle Mass (LN, 18087-7)	Measurement Method: Area-Length Single Plane (DCM, 125205) Index: Patient Height (LN, 8302-2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, M-mode, M-mode: LV Mass, ASE	Left Ventricle Mass (LN, 18087-7)	Measurement Method: ASE (99SEQUOIA, ASE)
BASIC MEASUREMENTS, M-mode, M-mode: LV Mass/BSA, ASE	Left Ventricle Mass (LN, 18087-7)	Measurement Method: ASE (99SEQUOIA, ASE) Index: Body Surface Area (LN, 8277-6)
BASIC MEASUREMENTS, M-mode, M-mode: LV Mass/Ht, ASE	Left Ventricle Mass (LN, 18087-7)	Measurement Method: ASE (99SEQUOIA, ASE) Index: Patient Height (LN, 8302-2)
BASIC MEASUREMENTS, M-mode, M-mode: LV Mass, ASEcorr	Left Ventricle Mass (LN, 18087-7)	Measurement Method: ASE,Corrected (99SEQUOIA, ASECorrected)
BASIC MEASUREMENTS, M-mode, M-mode: LV Mass/BSA, ASEcorr	Left Ventricle Mass (LN, 18087-7)	Measurement Method: ASE,Corrected (99SEQUOIA, ASECorrected) Index: Body Surface Area (LN, 8277-6)
BASIC MEASUREMENTS, M-mode, M-mode: LV Mass/Ht, ASEcorr	Left Ventricle Mass (LN, 18087-7)	Measurement Method: ASE,Corrected (99SEQUOIA, ASECorrected) Index: Patient Height (LN, 8302-2)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Mass/BSA	Left Ventricle Mass (LN, 18087-7)	Measurement Method: Left Ventricle Mass Truncated Ellipse (DCM, 125222) Index: Body Surface Area (LN, 8277-6) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Mass/Ht	Left Ventricle Mass (LN, 18087-7)	Measurement Method: Left Ventricle Mass Truncated Ellipse (DCM, 125222) Index: Patient Height (LN, 8302-2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Minor, chord, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Two Chamber at the Level of the Mitral Chords (99SEQUOIA, A2Cchord) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Minor, chord, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Two Chamber at the Level of the Mitral Chords (99SEQUOIA, A2Cchord) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Minor, pap, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Two Chamber at the Papillary Muscle Level (99SEQUOIA, A2Cpap) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, A2C: LV Minor, pap, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Two Chamber at the Papillary Muscle Level (99SEQUOIA, A2Cpap) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Minor, Chord, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Four Chamber at the Level of the Mitral Chords (99SEQUOIA, A4Cchord) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Minor, Chord, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Four Chamber at the Level of the Mitral Chords (99SEQUOIA, A4Cchord) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Minor, Pap, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Four Chamber at the Papillary Muscle Level (99SEQUOIA, A4Cpap) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, A4C: LV Minor, Pap, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Apical Four Chamber at the Papillary Muscle Level (99SEQUOIA, A4Cpap) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV Minor, chord, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Parasternal Long Axis at the Level of the Mitral Chords (99SEQUOIA, PLAXchord) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV Minor, chord, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Parasternal Long Axis at the Level of the Mitral Chords (99SEQUOIA, PLAXchord) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV Minor, pap, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Parasternal Long Axis at the Papillary Muscle Level (99SEQUOIA, PLAXpap) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV Minor, pap, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Parasternal Long Axis at the Papillary Muscle Level (99SEQUOIA, PLAXpap) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV Minor]	
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Minor, chord, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Long Axis at the Level of the Mitral Chords (99SEQUOIA, SCLAXchord) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Minor, chord, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Long Axis at the Level of the Mitral Chords (99SEQUOIA, SCLAXchord) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Minor, pap, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Long Axis at the Papillary Muscle Level (99SEQUOIA, SCLAXpap) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LV Minor, pap, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Long Axis at the Papillary Muscle Level (99SEQUOIA, SCLAXpap) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV Minor, chord, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Short Axis at the Level of the Mitral Chords (99SEQUOIA, SCSAXchord) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV Minor, chord, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Short Axis at the Level of the Mitral Chords (99SEQUOIA, SCSAXchord) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV Minor, pap, Diastole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Short Axis at the Papillary Muscle Level (99SEQUOIA, SCSAXpap) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LV Minor, pap, Systole	Left Ventricle Minor Axis (99SEQUOIA, MINORlv)	Image View: Subcostal Short Axis at the Papillary Muscle Level (99SEQUOIA, SCSAXpap) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	Left Ventricle Minor Radius (99SEQUOIA, MINORradiuslv)	Image View: Parasternal Short Axis at the Papillary Muscle Level (SRT, G-039B) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	Left Ventricle Posterior Wall Diastolic Thickness (LN, 18152-9)	Cardiac Cycle Point: End Diastole (SRT, F-32011) Derivation: Mean (SRT, R-00317)
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV EF, Bullet VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV EF	Left Ventricular Ejection Fraction (LN, 18043-0)	Measurement Method: Bullet (99SEQUOIA, Bullet)
BASIC MEASUREMENTS, M-mode, STIs: LV ET VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: LV ET	Left Ventricular Ejection Time (99SEQUOIA, ETlv)	Image Mode: M-mode (SRT, G-0394)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV ET]	
VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: HR [near LV ET]	HR mean, ETlv M-Mode and Etaov Doppler Heart Rates (99SEQUOIA, HRIvetmd)	
BASIC MEASUREMENTS, M-mode, STIs: HR [near LV ET]	HR mean, Left Ventricular Ejection Time (99SEQUOIA, ETlvHRmean)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, M-mode, STIs: LV Etc	Left Ventricular Ejection Time, Corrected (99SEQUOIA, ETlvc)	Image Mode: M-mode (SRT, G-0394)
PRESSURE PREDICTIONS, LVEDP, LVEDP: LV ed Press VALVE REGURGITATION, Aortic Valve, LVEDP: LV ed Press	Left Ventricular End Diastolic Pressure (99SEQUOIA, PRESSlved)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	Left Ventricular End Diastolic Pressure, entered (99SEQUOIA, PRESSlvedentered)	
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV Vol, Bullet, Diastole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV Vol, Diastole	Left Ventricular End Diastolic Volume (LN, 18026-5)	Measurement Method: Bullet (99SEQUOIA, Bullet)
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV Vol, Bullet, Systole VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV Vol, Systole	Left Ventricular End Systolic Volume (LN, 18148-7)	Measurement Method: Bullet (99SEQUOIA, Bullet)
BASIC MEASUREMENTS, M-mode, STIs: LV PEP	Left Ventricular Pre-ejection Period (99SEQUOIA, PEPlv)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LV PEP]	
[HR not shown on report page]	HR mean, Left Ventricular Pre-ejection Period (99SEQUOIA, PEPlvHRmean)	
BASIC MEASUREMENTS, M-mode, STIs: LV PEPc	Left Ventricular Pre-ejection Period (99SEQUOIA, PEPlvc)	
PRESSURE PREDICTIONS, LVSP, LVSP: LV sys Press VALVE STENOSIS, Aortic Valve, Aortic Doppler: LV sys Press	Left Ventricular Systolic Pressure (99SEQUOIA, PRESSlvs)	
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Mass/LV Vol, A/L	LV Mass/LV Volume (99SEQUOIA, DENSITYlv)	Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Mass/LV Vol, A/L	LV Mass/LV Volume (99SEQUOIA, DENSITYlv)	Measurement Method: Left Ventricle Mass Truncated Ellipse (DCM, 125222) Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Truncated Ellipse: LV Mass/LV Vol, MOD	LV Mass/LV Volume (99SEQUOIA, DENSITYlv)	Measurement Method: Left Ventricle Mass Truncated Ellipse (DCM, 125222) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes / Mass, LV Mass, Area / Length: LV Mass/LV Vol, MOD	LV Mass/LV Volume (99SEQUOIA, DENSITYlv)	Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, M-mode, STIs: LV PEP/ET	LVPEP/ET (99SEQUOIA, RATIOlvpep_et)	
[Not shown on a report page]	LV Volume, disk 0 (99SEQUOIA, VOLlvDisk0)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 1 (99SEQUOIA, VOLlvDisk1)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 2 (99SEQUOIA, VOLlvDisk2)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 3 (99SEQUOIA, VOLlvDisk3)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 4 (99SEQUOIA, VOLlvDisk4)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 5 (99SEQUOIA, VOLlvDisk5)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 6 (99SEQUOIA, VOLlvDisk6)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 7 (99SEQUOIA, VOLlvDisk7)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 8 (99SEQUOIA, VOLlvDisk8)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 9 (99SEQUOIA, VOLlvDisk9)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 10 (99SEQUOIA, VOLlvDisk10)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 11 (99SEQUOIA, VOLlvDisk11)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 12 (99SEQUOIA, VOLlvDisk12)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 13 (99SEQUOIA, VOLlvDisk13)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 14 (99SEQUOIA, VOLlvDisk14)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 15 (99SEQUOIA, VOLlvDisk15)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 16 (99SEQUOIA, VOLlvDisk16)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 17 (99SEQUOIA, VOLlvDisk17)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 18 (99SEQUOIA, VOLlvDisk18)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 19 (99SEQUOIA, VOLlvDisk19)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 0 (99SEQUOIA, VOLlvDisk0)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 1 (99SEQUOIA, VOLlvDisk1)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 2 (99SEQUOIA, VOLlvDisk2)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 3 (99SEQUOIA, VOLlvDisk3)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 4 (99SEQUOIA, VOLlvDisk4)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 5 (99SEQUOIA, VOLlvDisk5)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 6 (99SEQUOIA, VOLlvDisk6)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 7 (99SEQUOIA, VOLlvDisk7)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 8 (99SEQUOIA, VOLlvDisk8)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 9 (99SEQUOIA, VOLlvDisk9)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 10 (99SEQUOIA, VOLlvDisk10)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 11 (99SEQUOIA, VOLlvDisk11)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 12 (99SEQUOIA, VOLlvDisk12)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 13 (99SEQUOIA, VOLlvDisk13)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 14 (99SEQUOIA, VOLlvDisk14)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 15 (99SEQUOIA, VOLlvDisk15)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 16 (99SEQUOIA, VOLlvDisk16)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 17 (99SEQUOIA, VOLlvDisk17)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 18 (99SEQUOIA, VOLlvDisk18)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
[Not shown on a report page]	LV Volume, disk 19 (99SEQUOIA, VOLlvDisk19)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 0 (99SEQUOIA, VOLlvDisk0)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 1 (99SEQUOIA, VOLlvDisk1)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 2 (99SEQUOIA, VOLlvDisk2)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 3 (99SEQUOIA, VOLlvDisk3)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 4 (99SEQUOIA, VOLlvDisk4)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 5 (99SEQUOIA, VOLlvDisk5)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 6 (99SEQUOIA, VOLlvDisk6)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 7 (99SEQUOIA, VOLlvDisk7)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 8 (99SEQUOIA, VOLlvDisk8)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 9 (99SEQUOIA, VOLlvDisk9)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 10 (99SEQUOIA, VOLlvDisk10)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 11 (99SEQUOIA, VOLlvDisk11)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 12 (99SEQUOIA, VOLlvDisk12)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 13 (99SEQUOIA, VOLlvDisk13)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 14 (99SEQUOIA, VOLlvDisk14)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 15 (99SEQUOIA, VOLlvDisk15)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 16 (99SEQUOIA, VOLlvDisk16)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 17 (99SEQUOIA, VOLlvDisk17)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 18 (99SEQUOIA, VOLlvDisk18)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 19 (99SEQUOIA, VOLlvDisk19)	Image View: Apical Two Chamber (SRT, G-A19B) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 0 (99SEQUOIA, VOLlvDisk0)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 1 (99SEQUOIA, VOLlvDisk1)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 2 (99SEQUOIA, VOLlvDisk2)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 3 (99SEQUOIA, VOLlvDisk3)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 4 (99SEQUOIA, VOLlvDisk4)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 5 (99SEQUOIA, VOLlvDisk5)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 6 (99SEQUOIA, VOLlvDisk6)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 7 (99SEQUOIA, VOLlvDisk7)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 8 (99SEQUOIA, VOLlvDisk8)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 9 (99SEQUOIA, VOLlvDisk9)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 10 (99SEQUOIA, VOLlvDisk10)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 11 (99SEQUOIA, VOLlvDisk11)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 12 (99SEQUOIA, VOLlvDisk12)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 13 (99SEQUOIA, VOLlvDisk13)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 14 (99SEQUOIA, VOLlvDisk14)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 15 (99SEQUOIA, VOLlvDisk15)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 16 (99SEQUOIA, VOLlvDisk16)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 17 (99SEQUOIA, VOLlvDisk17)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	LV Volume, disk 18 (99SEQUOIA, VOLlvDisk18)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
[Not shown on a report page]	LV Volume, disk 19 (99SEQUOIA, VOLlvDisk19)	Image View: Apical Four Chamber (SRT, G-A19C) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, M-mode, M-mode: Mean Vcfc VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: Mean Vcfc	Mean Velocity of Circumferential, Corrected (99SEQUOIA, MNVcfc)	
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV SI, Bullet VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV SI	Stroke Index (SRT, F-00078)	Measurement Method: Bullet (99SEQUOIA, Bullet)
BASIC MEASUREMENTS, 2D Volumes, LV PSAX, Pap Level: LV SV, Bullet VENTRICULAR FUNCTION, LV Systolic Function, EF / CO, PSAX, Bullet: LV SV	Stroke Volume (SRT, F-32120)	Measurement Method: Bullet (99SEQUOIA, Bullet)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: SV, Systemic	Systemic Stroke Volume (99SEQUOIA, SVsystemic)	
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: LVOT VTI VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: VTI, LVOT	Velocity Time Integral (LN, 20354-7)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated LVOT VTI]	
VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: Wall Stress, Circum	Circumferential Wall Stress (99SEQUOIA, WScircum)	
VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: Wall Stress, Merid	Wall Stress (Meridian) (99SEQUOIA, WSlvmerid)	

14.3 Right Ventricle

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Right Ventricle	Finding Site: Right Ventricle (SRT, T-32500)	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: CI, Pulmonic	Cardiac Index (SRT, F-32110)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: CO, Pulmonic	Cardiac Output (SRT, F-32100)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: HR, Pulmonic	Heart Rate (LN, 8867-4) [Property of associated CO, Pulmonic]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: RVOT Area VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: Area, RVOT VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT Area	Cardiovascular Orifice Area (SRT, G-038E)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Image Mode: 2D-mode (SRT, G-03A2)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: RVOT Diam VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: RVOT Diam VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: Diam, RVOT VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT Diam	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Image Mode: 2D-mode (SRT, G-03A2) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RVOT Diam]	
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: VSD Pk Grad	Peak Gradient (LN, 20247-3)	Finding Site: Ventricular Septal Defect (SRT, D4-31150)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: Vmax, RVOT	Peak Systolic Velocity (LN, 11726-7)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: VSD Vmax	Peak Systolic Velocity (LN, 11726-7)	Finding Site: Ventricular Septal Defect (SRT, D4-31150)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: RVAW, Diastole	Right Ventricular Anterior Wall Diastolic Thickness (LN, 18153-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RVAW, Diastole	Right Ventricular Anterior Wall Diastolic Thickness (LN, 18153-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: RVAW, Diastole	Right Ventricular Anterior Wall Diastolic Thickness (LN, 18153-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RVAW, Diastole	Right Ventricular Anterior Wall Diastolic Thickness (LN, 18153-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RVAW, Diastole	Right Ventricular Anterior Wall Diastolic Thickness (LN, 18153-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: RVAW, Diastole	Right Ventricular Anterior Wall Diastolic Thickness (LN, 18153-7)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: RVAW, Systole	Right Ventricular Anterior Wall Systolic Thickness (LN, 18157-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RVAW, Systole	Right Ventricular Anterior Wall Systolic Thickness (LN, 18157-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: RVAW, Systole	Right Ventricular Anterior Wall Systolic Thickness (LN, 18157-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RVAW, Systole	Right Ventricular Anterior Wall Systolic Thickness (LN, 18157-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RVAW, Systole	Right Ventricular Anterior Wall Systolic Thickness (LN, 18157-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: RVAW, Systole	Right Ventricular Anterior Wall Systolic Thickness (LN, 18157-8)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: RV, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RV, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: RV, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV Major, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RV Major]	
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV Major, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV Major, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, M-mode, M-mode: RV, Diastole	Right Ventricular Internal Diastolic Dimension (LN, 20304-2)	Image Mode: M-mode (SRT, G-0394)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: RV, Systole	Right Ventricular Internal Systolic Dimension (LN, 20305-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RV, Systole	Right Ventricular Internal Systolic Dimension (LN, 20305-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, Chord Level: RV, Systole	Right Ventricular Internal Systolic Dimension (LN, 20305-9)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Level of the Mitral Chords (SRT, G-0399)
BASIC MEASUREMENTS, M-mode, M-mode: RV, Systole	Right Ventricular Internal Systolic Dimension (LN, 20305-9)	Image Mode: M-mode (SRT, G-0394)
VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT SI	Stroke Index (SRT, F-00078)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: RVOT SV VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT SV	Stroke Volume (SRT, F-32120)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Measurement Method: Doppler Volume Flow (DCM, 125219)
[Not shown on a report page]	Stroke Volume (SRT, F-32120)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: RVOT VTI VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: VTI, RVOT VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RVOT VTI]	
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: VTI, RVOT	Velocity Time Integral (LN, 20354-7)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Measurement Method: Continuity Equation (DCM, 125212)
Private Measurements		
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV Area, Diastole	Area (99SEQUOIA, Area)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV Area, Systole	Area (99SEQUOIA, Area)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RV Area, Diastole	Area (99SEQUOIA, Area)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RV Area, Systole	Area (99SEQUOIA, Area)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV Area, Diastole	Area (99SEQUOIA, Area)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV Area, Systole	Area (99SEQUOIA, Area)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV Area, Diastole	Area (99SEQUOIA, Area)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV Area, Systole	Area (99SEQUOIA, Area)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV Area, Vw 1, Diastole VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV Area, Vw 1, Diastole VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV Area, Vw 1, Diastole VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV Area, Vw 1, Diastole ----- [HR not shown on report page]	Area (99SEQUOIA, Area) Heart Rate (LN, 8867-4) [Property of associated RV Area]	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV Area, Vw 1, Systole VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV Area, Vw 1, Systole VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV Area, Vw 1, Systole VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV Area, Vw 1, Systole ----- [HR not shown on report page]	Area (99SEQUOIA, Area) Heart Rate (LN, 8867-4) [Property of associated RV Area]	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV CI, Prol Ell	Cardiac Index (SRT, F-32110)	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV CO, Prol Ell VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV EF, Prol Ell ----- BASIC MEASUREMENTS, 2D Volumes, RV Volumes: HR VENTRICULAR FUNCTION, RV Systolic Function, 2D: HR	Cardiac Output (SRT, F-32100) Heart Rate (LN, 8867-4) [Property of associated RV CO]	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV EF, Prol Ell VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV EF, Prol Ell	Right Ventricle Ejection Fraction (99SEQUOIA, EFrv)	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV % FAC	Right Ventricle Fractional Area Change (99SEQUOIA, PCTAREACHrv)	Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV % FAC	Right Ventricle Fractional Area Change (99SEQUOIA, PCTAREACHrv)	Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV % FAC	Right Ventricle Fractional Area Change (99SEQUOIA, PCTAREACHrv)	Image View: Subcostal Short Axis (SRT, G-039F)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV % FAC, Vw 1	Right Ventricle Fractional Area Change (99SEQUOIA, PCTAREACHrv)	Image View: View 1 (99SEQUOIA, View1)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV Major, Systole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: Apical Four Chamber (SRT, G-A19C); Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RV Major]	
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RV Major, Diastole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RV Major, Systole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV Major, Systole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV Major, Systole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV Major, Vw 2, Diastole VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV Major, Vw 2, Diastole VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV Major, Vw 2, Diastole VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV Major, Vw 2, Diastole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RV Major]	
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV Major, Vw 2, Systole VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV Major, Vw 2, Systole VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV Major, Vw 2, Systole VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV Major, Vw 2, Systole	Right Ventricle Major Axis (99SEQUOIA, MAJORrv)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Systole (SRT, F-32020)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RV Major]	
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV Minor, Diastole	Right Ventricle Minor Axis (99SEQUOIA, MINORrv)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated RV Minor]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A4C: RV Minor, Systole ----- [HR not shown on report page]	Right Ventricle Minor Axis (99SEQUOIA, MINORrv) Heart Rate (LN, 8867-4) [Property of associated RV Minor]	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV Minor, Diastole	Right Ventricle Minor Axis (99SEQUOIA, MINORrv)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RV Minor, Systole	Right Ventricle Minor Axis (99SEQUOIA, MINORrv)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV Minor, Diastole	Right Ventricle Minor Axis (99SEQUOIA, MINORrv)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RV Minor, Systole	Right Ventricle Minor Axis (99SEQUOIA, MINORrv)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, M-mode, STIs: RV ET ----- [HR not shown on report page]	Right Ventricular Ejection Time (99SEQUOIA, ETrv) Heart Rate (LN, 8867-4) [Property of associated RV ET]	
BASIC MEASUREMENTS, M-mode, STIs: HR (near RV ET)	HR mean, Right Ventricular Ejection Time (99SEQUOIA, ETrvHRmean)	
BASIC MEASUREMENTS, M-mode, STIs: RV ETc	Right Ventricular Ejection Time, Corrected (99SEQUOIA, ETrvc)	
BASIC MEASUREMENTS, M-mode, STIs: RV PEP/ET	Right Ventricular PEP/ET (99SEQUOIA, RATIOrvpep_et)	
BASIC MEASUREMENTS, M-mode, STIs: RV PEP ----- [HR not shown on report page]	Right Ventricular Pre-ejection Period (99SEQUOIA, PEPrv) Heart Rate (LN, 8867-4) [Property of associated RV PEP]	
[HR not shown on report page]	HR mean, Right Ventricular Pre-ejection Period (99SEQUOIA, PEPrvHRmean)	
BASIC MEASUREMENTS, M-mode, STIs: RV PEPc	Right Ventricular Pre-ejection Period, Corrected (99SEQUOIA, PEPrvc)	
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: RV sys Press VALVE STENOSIS, Mitral Valve, PA Pressures: RV sys Press VALVE STENOSIS, Pulmonic Valve, PV Doppler: RV sys Press	Right Ventricular Systolic Pressure, TR (99SEQUOIA, PRESSrvstr)	
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: RV sys Press	Right Ventricular Systolic Pressure, VSD (99SEQUOIA, PRESSrvsvsd)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV SI, Prol Ell VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV SI, Prol Ell	Stroke Index (SRT, F-00078)	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV SV, Prol Ell VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV SV, Prol Ell VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV SV, Prol Ell VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV SV, Prol Ell	Stroke Volume (SRT, F-32120)	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV Vol, Prol Ell, Diastole VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV Vol, Prol Ell, Diastole VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV Vol, Prol Ell, Diastole VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV Vol, Prol Ell, Diastole	Volume (99SEQUOIA, Volume)	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RV Volumes: RV Vol, Prol Ell, Systole VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: RV Vol, Prol Ell, Systole VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: RV Vol, Prol Ell, Systole VENTRICULAR FUNCTION, RV Systolic Function, 2D: RV Vol, Prol Ell, Systole	Volume (99SEQUOIA, Volume)	Measurement Method: Prolate Ellipse (99SEQUOIA, ProlateEllipse) Cardiac Cycle Point: Systole (SRT, F-32020)

14.4 Left Atrium

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Left Atrium	Finding Site: Left Atrium (SRT, T-32300)	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LA A/P Diam, Systole	Left Atrium Antero-posterior Systolic Dimension (LN, 29469-4)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LA A/P Diam, Systole	Left Atrium Antero-posterior Systolic Dimension (LN, 29469-4)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, M-mode, M-mode: LA Diam, Systole	Left Atrium Antero-posterior Systolic Dimension (LN, 29469-4)	Image Mode: M-mode (SRT, G-0394)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A2C: LA Area, Systole	Left Atrium Systolic Area (LN, 17977-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LA Area, Systole	Left Atrium Systolic Area (LN, 17977-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LA Area, Systole	Left Atrium Systolic Area (LN, 17977-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LA Area, Systole	Left Atrium Systolic Area (LN, 17977-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LA Area, Systole	Left Atrium Systolic Area (LN, 17977-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LA Area, Systole	Left Atrium Systolic Area (LN, 17977-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, BP A/L, Systole	Left Atrium Systolic Volume (SRT, G-0383)	Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, BP MOD, Systole	Left Atrium Systolic Volume (SRT, G-0383)	Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LAs/Aod	Left Atrium to Aortic Root Ratio (LN, 17985-3)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, M-mode, M-mode: Las/Aod	Left Atrium to Aortic Root Ratio (LN, 17985-3)	Image Mode: M-mode (SRT, G-0394)
Private Measurements		
BASIC MEASUREMENTS, 2D Dimensions, A2C: LA Area, Diastole	Area (99SEQUOIA, Area)	Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LA Area, Diastole	Area (99SEQUOIA, Area)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LA Area, Diastole	Area (99SEQUOIA, Area)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LA Area, Diastole	Area (99SEQUOIA, Area)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LA Area, Diastole	Area (99SEQUOIA, Area)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LA Area, Diastole	Area (99SEQUOIA, Area)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Area, Vw 1, Diastole	Area (99SEQUOIA, Area)	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Area, Vw 1, Systole	Area (99SEQUOIA, Area)	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Area, Vw 2, Diastole	Area (99SEQUOIA, Area)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Area, Vw 2, Systole	Area (99SEQUOIA, Area)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, M-mode, M-mode: LA Diam, Diastole	Diameter (99SEQUOIA, Diameter)	Image Mode: M-mode (SRT, G-0394) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LA A/P Diam, Diastole	Left Atrium A/P Axis (99SEQUOIA, MINORlaapx)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LA A/P Diam, Systole	Left Atrium A/P Axis (99SEQUOIA, MINORlaapx)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LA A/P Diam, Diastole	Left Atrium A/P Diameter (99SEQUOIA, DIAMlaap)	Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LA A/P Diam, Systole	Left Atrium A/P Diameter (99SEQUOIA, DIAMlaap)	Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LV A/P Diam, Diastole	Left Atrium A/P Diameter (99SEQUOIA, DIAMlaap)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LA A/P Diam, Diastole	Left Atrium A/P Diameter (99SEQUOIA, DIAMlaap)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 1, MOD, Diastole	Left Atrium Diastolic Volume (99SEQUOIA, VOLlad)	Measurement Method: Method of Disks, Single Plane (DCM, 125208) Image View: View 1 (99SEQUOIA, View1)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 2, MOD, Diastole	Left Atrium Diastolic Volume (99SEQUOIA, VOLlad)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 1, A/L, Diastole	Left Atrium Diastolic Volume (99SEQUOIA, VOLlad)	Measurement Method: Area-Length Single Plane (DCM, 125205) Image View: View 1 (99SEQUOIA, View1)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 2, A/L, Diastole	Left Atrium Diastolic Volume (99SEQUOIA, VOLlad)	Measurement Method: Area-Length Single Plane (DCM, 125205) Image View: View 2 (99SEQUOIA, View2)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, BP A/L, Diastole	Left Atrium Diastolic Volume (99SEQUOIA, VOLlad)	Measurement Method: Area-Length Biplane (DCM, 125204)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, BP MOD, Diastole	Left Atrium Diastolic Volume (99SEQUOIA, VOLlad)	Measurement Method: Method of Disks, Biplane (DCM, 125207)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Major, Vw 1, Diastole	Left Atrium Major Axis (99SEQUOIA, MAJORlax)	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Major, Vw 1, Systole	Left Atrium Major Axis (99SEQUOIA, MAJORlax)	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Major, Vw 2, Diastole	Left Atrium Major Axis (99SEQUOIA, MAJORlax)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Major, Vw 2, Systole	Left Atrium Major Axis (99SEQUOIA, MAJORlax)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A4C: LA R/L Diam, Diastole	Left Atrium R/L Diameter (99SEQUOIA, DIAMlarl)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LA R/L Diam, Systole	Left Atrium R/L Diameter (99SEQUOIA, DIAMlarl)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LA R/L Diam, Diastole	Left Atrium R/L Diameter (99SEQUOIA, DIAMlarl)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LA R/L Diam, Systole	Left Atrium R/L Diameter (99SEQUOIA, DIAMlarl)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LA R/L Diam, Diastole	Left Atrium R/L Diameter (99SEQUOIA, DIAMlarl)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LA R/L Diam, Systole	Left Atrium R/L Diameter (99SEQUOIA, DIAMlarl)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LA S/I Diam, Diastole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A2C: LA S/I Diam, Systole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LA S/I Diam, Diastole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LA S/I Diam, Systole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LA S/I Diam, Diastole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: LA S/I Diam, Systole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LA S/I Diam, Diastole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LA S/I Diam, Systole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LA S/I Diam, Diastole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LA S/I Diam, Systole	Left Atrium S/I Diameter (99SEQUOIA, MAJORlasi)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
PRESSURE PREDICTIONS, LASP, LASP: LA sys Press	Left Atrium Systolic Pressure (99SEQUOIA, PRESSlas)	
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 1, MOD, Systole	Left Atrium Systolic Volume (SRT, G-0383)	Image View: View 1 (99SEQUOIA, View1) Measurement Method: Method of Disks, Single Plane (DCM, 125208)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 2, MOD, Systole	Left Atrium Systolic Volume (SRT, G-0383)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Method of Disks, Single Plane (DCM, 125208)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 1, A/L, Systole	Left Atrium Systolic Volume (SRT, G-0383)	Image View: View 1 (99SEQUOIA, View1) Measurement Method: Area-Length Single Plane (DCM, 125205)
BASIC MEASUREMENTS, 2D Volumes, LA Volumes: Vol, Vw 2, A/L, Systole	Left Atrium Systolic Volume (SRT, G-0383)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Area-Length Single Plane (DCM, 125205)

14.5 Right Atrium

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Right Atrium	Finding Site: Right Atrium (SRT, T-32200)	
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: RA Press PRESSURE PREDICTIONS, PADP, PADP: RA Press VALVE STENOSIS, Mitral Valve, PA Pressures: RA Press VALVE STENOSIS, Pulmonic Valve, PV Doppler: RA Press	Right Atrium Systolic Pressure (LN, 18070-3)	
BASIC MEASUREMENTS, 2D Dimensions, A4C: RA Area, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RA Area, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RA Area, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RA Area, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RA Area, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F)
Private Measurements		
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RA A/P Diam, Diastole	Right Atrium A/P Diameter (99SEQUOIA, DIAMraap)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RA A/P Diam, Systole	Right Atrium A/P Diameter (99SEQUOIA, DIAMraap)	Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RA A/P Diam, Diastole	Right Atrium A/P Diameter (99SEQUOIA, DIAMraap)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RA A/P Diam, Systole	Right Atrium A/P Diameter (99SEQUOIA, DIAMraap)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RA A/P Diam, Diastole	Right Atrium A/P Diameter (99SEQUOIA, DIAMraap)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RA A/P Diam, Systole	Right Atrium A/P Diameter (99SEQUOIA, DIAMraap)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RA Area, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RA Area, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: Parasternal Long Axis (SRT, G-0396)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RA Area, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RA Area, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: Subcostal Long Axis (SRT, G-039E)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RA Area, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: Subcostal Short Axis (SRT, G-039F)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Area, Vw 1, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: View 1 (99SEQUOIA, View1)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Area, Vw 2, Diastole	Right Atrium Diastolic Area (99SEQUOIA, AREArad)	Image View: View 2 (99SEQUOIA, View2)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Major, Vw 1, Diastole	Right Atrium Major Axis (99SEQUOIA, MAJORra)	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Major, Vw 1, Systole	Right Atrium Major Axis (99SEQUOIA, MAJORra)	Image View: View 1 (99SEQUOIA, View1) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Major, Vw 2, Diastole	Right Atrium Major Axis (99SEQUOIA, MAJORra)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Major, Vw 2, Systole	Right Atrium Major Axis (99SEQUOIA, MAJORra)	Image View: View 2 (99SEQUOIA, View2) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RA R/L Diam, Diastole	Right Atrium R/L Diameter (99SEQUOIA, DIAMrarl)	Cardiac Cycle Point: Diastole (SRT, F-32010) Image View: Apical Four Chamber (SRT, G-A19C)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RA R/L Diam, Systole	Right Atrium R/L Diameter (99SEQUOIA, DIAMrarl)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RA R/L Diam, Diastole	Right Atrium R/L Diameter (99SEQUOIA, DIAMrarl)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RA R/L Diam, Systole	Right Atrium R/L Diameter (99SEQUOIA, DIAMrarl)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RA R/L Diam, Diastole	Right Atrium R/L Diameter (99SEQUOIA, DIAMrarl)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RA R/L Diam, Systole	Right Atrium R/L Diameter (99SEQUOIA, DIAMrarl)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RA S/I Diam, Diastole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RA S/I Diam, Systole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RA S/I Diam, Diastole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Parasternal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: RA S/I Diam, Systole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Parasternal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RA S/I Diam, Diastole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RA S/I Diam, Systole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RA S/I Diam, Diastole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RA S/I Diam, Systole	Right Atrium S/I Diameter (99SEQUOIA, DIAMrasi)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Area, Vw 1, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image View: View 1 (99SEQUOIA, View1)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Area, Vw 2, Systole	Right Atrium Systolic Area (LN, 17988-7)	Image View: View 2 (99SEQUOIA, View2)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw1, A/L, Diastole	Volume (99SEQUOIA, Volume)	Image View: View 1 (99SEQUOIA, View1) Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw1, A/L, Systole	Volume (99SEQUOIA, Volume)	Image View: View 1 (99SEQUOIA, View1) Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw2, A/L, Diastole	Volume (99SEQUOIA, Volume)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw2, A/L, Systole	Volume (99SEQUOIA, Volume)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Area-Length Single Plane (DCM, 125205) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, BP A/L, Diastole	Volume (99SEQUOIA, Volume)	Measurement Method: Area-Length Biplane (DCM, 125204) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, BP A/L, Systole	Volume (99SEQUOIA, Volume)	Measurement Method: Area-Length Biplane (DCM, 125204) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw 1, MOD, Diastole	Volume (99SEQUOIA, Volume)	Image View: View 1 (99SEQUOIA, View1) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw 1, MOD, Systole	Volume (99SEQUOIA, Volume)	Image View: View 1 (99SEQUOIA, View1) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw 2, MOD, Diastole	Volume (99SEQUOIA, Volume)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, Vw 2, MOD, Systole	Volume (99SEQUOIA, Volume)	Image View: View 2 (99SEQUOIA, View2) Measurement Method: Method of Disks, Single Plane (DCM, 125208) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, BP MOD, Diastole	Volume (99SEQUOIA, Volume)	Measurement Method: Method of Disks, Biplane (DCM, 125207) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Volumes, RA Volumes: Vol, BP MOD, Systole	Volume (99SEQUOIA, Volume)	Measurement Method: Method of Disks, Biplane (DCM, 125207) Cardiac Cycle Point: Systole (SRT, F-32020)

14.6 Aortic Valve

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Aortic Valve	Finding Site: Aortic Valve (SRT, T-35400)	
VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV AT	Acceleration Time (LN, 20168-1)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AoV AT]	
BASIC MEASUREMENTS, M-mode, M-mode: AoV Cusp Sep	Aortic Valve Cusp Separation (LN, 17996-0)	Image Mode: M-mode (SRT, G-0394)
VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV ET	Aortic Valve Ejection Time (LN, 18041-4)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AoV ET]	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: CSA, Systemic	Cardiovascular Orifice Area (SRT, G-038E)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: AoV Area, Vmean	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Continuity Equation by Mean Velocity (DCM, 125213) Flow Direction: Antegrade Flow (SRT, R-42047)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: AoV Area, Vmax	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Continuity Equation by Peak Velocity (DCM, 125214) Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: AoV Area, VTI	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Continuity Equation by Velocity Time Integral (DCM, 125215)
VALVE STENOSIS, Aortic Valve, 2D: AoV Area, planim	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Planimetry (DCM, 125220) Flow Direction: Antegrade Flow (SRT, R-42047)
[Not shown on a report page]	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Planimetry (DCM, 125220)
VALVE STENOSIS, Aortic Valve, AoV PISA: AoV Area	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR Eff ROA	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Slope: AR Decel Rate	Deceleration Slope (LN, 20216-8)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Slope: Decel Time	Deceleration Time (LN, 20217-6)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
PRESSURE PREDICTIONS, LVEDP, LVEDP: AR ed Vel VALVE REGURGITATION, Aortic Valve, LVEDP: AR ed Vel	End Diastolic Velocity (LN, 11653-3)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AR ed Vel]	
VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV Mn Grad	Mean Gradient (LN, 20256-4)	Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AoV Mn Grad]	
PRESSURE PREDICTIONS, LVEDP, LVEDP: AR ed Grad VALVE REGURGITATION, Aortic Valve, LVEDP: AR ed Grad	Peak Gradient (LN, 20247-3)	Cardiac Cycle Point: End_Diastole (SRT, F-32011) Flow Direction: Regurgitant Flow (SRT, R-42E61)
PRESSURE PREDICTIONS, LVSP, LVSP: AoV Pk Grad VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV Pk Grad	Peak Gradient (LN, 20247-3)	Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE STENOSIS, Aortic Valve, AoV PISA: LVOT Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650) Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Flow Direction: Regurgitant Flow (SRT, R-42E61) Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
PRESSURE PREDICTIONS, LVSP, LVSP: AoV Vmax VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV Vmax VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: Vmax, AoV VALVE STENOSIS, Aortic Valve, AoV PISA: AoV Vmax	Peak Systolic Velocity (LN, 11726-7)	Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AoV Vmax]	
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR Vmax	Peak Systolic Velocity (LN, 11726-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AR Vmax]	
VALVE REGURGITATION, Aortic Valve, AR Slope: AR P½T	Pressure Half Time (LN, 20280-4)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV AT/ET	Ratio of Aortic Valve Acceleration Time to Ejection Time (SRT, G-0382)	
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: Vmean, AoV	Time Averaged Mean Velocity (LN, 20352-1)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmean, AoV]	
VALVE STENOSIS, Aortic Valve, Aortic Doppler: AoV VTI VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: VTI, AoV	Velocity Time Integral (LN, 20354-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AoV VTI]	
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR VTI VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: AR VTI VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR VTI	Velocity Time Integral (LN, 20354-7)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated AR VTI]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Private Measurements		
VALVE STENOSIS, Aortic Valve, AoV PISA: LVOT Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650) Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VENTRICULAR FUNCTION, LV Systolic Function, Doppler: AoV AT/ET	Aortic Valve AT/ET (99SEQUOIA, RATIOaovat_et)	
VALVE REGURGITATION, Aortic Valve, AR CD Jet Ratios: AR Jet/LVOT Area	AR Area/LVOT Area Ratio (99SEQUOIA, RATIOar_lvot)	
VALVE REGURGITATION, Aortic Valve, AR CD Jet Ratios: Ht, AR Jet	AR Jet Height (99SEQUOIA, DIAMarjetheight)	
VALVE REGURGITATION, Aortic Valve, AR CD Jet Ratios: AR Jet/LVOT Ht	AR Jet Height/LVOT Height Ratio (99SEQUOIA, RATIOarjetht_lvot)	
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR PISA	AR PISA (99SEQUOIA, PISAr)	
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR PISA Radius	AR PISA Radius (99SEQUOIA, DIAMarradlenpisa)	
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: Site 2 Area	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: Area, Site 2	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Aortic Valve, AoV PISA: AoV Area/BSA	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: AoV Area/BSA, Vmean	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation by Mean Velocity (DCM, 125213) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: AoV Area/BSA, Vmax	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation by Peak Velocity (DCM, 125214) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Aortic Valve, AoV Continuity Equation: AoV Area/BSA, VTI	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation by Velocity Time Integral (DCM, 125215) Index: Body Surface Area (LN, 8277-6)
VENTRICULAR FUNCTION, LV Systolic Function, Doppler: AoV AT	Basic Doppler Acceleration Time (99SEQUOIA, AccelTimebasic)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: AoV ET, Dop VENTRICULAR FUNCTION, LV Systolic Function, Doppler: AoV ET ----- [HR not shown on report page]	Basic Doppler Ejection Time (99SEQUOIA, ETbasic) Heart Rate (LN, 8867-4) [Property of associated AoV ET]	
BASIC MEASUREMENTS, Basic Doppler Survey, Aortic Valve: AoV Pk Grad	Basic Doppler Peak Gradient (99SEQUOIA, PKGRADbasic)	Flow Direction: Antegrade Flow (SRT, R-42047)
BASIC MEASUREMENTS, Basic Doppler Survey, Aortic Valve: AoV Vmax ----- [HR not shown on report page]	Basic Doppler Peak Velocity (99SEQUOIA, VMAXbasic) Heart Rate (LN, 8867-4) [Property of associated AoV Vmax]	Flow Direction: Antegrade Flow (SRT, R-42047)
BASIC MEASUREMENTS, Basic Doppler Survey, Aortic Valve: AoV VTI ----- [HR not shown on report page]	Basic Doppler Velocity Time Integral (99SEQUOIA, VTIbasic) Heart Rate (LN, 8867-4) [Property of associated AoV VTI]	
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: Site 2 Diam ----- [HR not shown on report page]	Diameter (99SEQUOIA, Diameter) Heart Rate (LN, 8867-4) [Property of associated Site 2 Diam]	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: Diam, Site 2 ----- [HR not shown on report page]	Diameter (99SEQUOIA, Diameter) Heart Rate (LN, 8867-4) [Property of associated Diam, Site 2]	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR Eff ROA, A/L	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: 2D (Area/Length) / Doppler (99SEQUOIA, 2ddopal) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR Eff ROA, MOD	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: 2D (MOD) / Doppler (99SEQUOIA, 2ddopmod) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: AR Eff ROA	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR CD Jet Ratios: Area, LVOT	Jet Area (99SEQUOIA, AREAjet)	Finding Site: Left Ventricle Outflow Tract (SNM3, T-32650)
VALVE REGURGITATION, Aortic Valve, AR CD Jet Ratios: Area, AR Jet	Jet Area (99SEQUOIA, AREAjet)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR CD Jet Ratios: Ht, LVOT	LVOT Height (99SEQUOIA, DIAMlvotheight)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE STENOSIS, Aortic Valve, AoV PISA: LVOT PISA	LVOT PISA (99SEQUOIA, PISAaov)	
VALVE STENOSIS, Aortic Valve, AoV PISA: LVOT PISA Radius	LVOT Radius (99SEQUOIA, DIAMaovradlnpisa)	
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR RF, A/L	Regurgitant Fraction (SRT, G-0390)	Measurement Method: 2D (Area/Length) / Doppler (99SEQUOIA, 2ddopal) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR RF, MOD	Regurgitant Fraction (SRT, G-0390)	Measurement Method: 2D (MOD) / Doppler (99SEQUOIA, 2ddopmod) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: AR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VOLUME FLOW / SHUNTS, Stroke Volume, AoV: LVOT SI	Stroke Index (SRT, F-00078)	
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: Site 2 SV	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: SV, Site2	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: Site 2 VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 VTI]	
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: VTI, Site2	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI, Site 2]	
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR Vol, A/L	Volume (99SEQUOIA,Volume)	Measurement Method: 2D (Area/Length) / Doppler (99SEQUOIA, 2ddopal) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by 2D/Doppler: AR Vol, MOD	Volume (99SEQUOIA,Volume)	Measurement Method: 2D (MOD) / Doppler (99SEQUOIA, 2ddopmod) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by Doppler/Doppler: AR Vol	Volume (99SEQUOIA,Volume)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Aortic Valve, AR Volume by PISA: AR Vol	Volume (99SEQUOIA,Volume)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)

14.7 Mitral Valve

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Mitral Valve	Finding Site: Mitral Valve (SRT, T-35300)	
VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV CI	Cardiac Index (SRT, F-32110)	
VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV CO	Cardiac Output (SRT, F-32100)	
VOLUME FLOW / SHUNTS, Stroke Volume, MV: HR	Heart Rate (LN, 8867-4) [Property of associated MV CO]	
VALVE STENOSIS, Mitral Valve, MV 2D Measurements: MV Area, planim	Cardiovascular Orifice Area (SRT, G-038E)	Image Mode: 2D-mode (SRT, G-03A2) Measurement Method: Planimetry (DCM, 125220)
VALVE STENOSIS, Mitral Valve, MV Doppler: MV Area, P½T	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Area by Pressure Half-Time (DCM, 125210)
VALVE STENOSIS, Mitral Valve, MV 2D Measurements: MV Area, BP Ellipse	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Biplane Ellipse (DCM, 125211) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Mitral Valve, MV Continuity Equation: MV Area	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Continuity Equation (DCM, 125212) Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR Eff ROA	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Mitral Valve, MV PISA: MV Area	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Antegrade Flow (SRT, R-42047)
BASIC MEASUREMENTS, 2D Dimensions, A2C: MV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: MV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: MV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: MV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: MV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A2C: MV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Two Chamber (SRT, G-A19B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: MV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: MV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: MV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: MV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Mitral Annulus (SRT, T-35313) Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
VALVE STENOSIS, Mitral Valve, MV 2D Measurements: MV Diam, A/P	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-039E)
VALVE STENOSIS, Mitral Valve, MV 2D Measurements: MV Diam, M/L	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C)
VALVE STENOSIS, Mitral Valve, MV Doppler: MV DT	Deceleration Time (LN, 20217-6)	Finding Site: Mitral Annulus (SRT, T-35313)
VALVE STENOSIS, Mitral Valve, MV Doppler: MV Mn Grad	Mean Gradient (LN, 20256-4)	Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV Mn Grad]	
VENTRICULAR FUNCTION, LV Systolic Function, Doppler: MR dP/dt	Mitral Regurgitation dPOverdt derived from Mitral Regurgitation Velocity (LN, 18035-6)	
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: A Dur	Mitral Valve A Wave Duration (SRT, G-0385)	
VALVE STENOSIS, Mitral Valve, MV Doppler: MV Peak A	Mitral Valve A Wave Peak Velocity (LN, 17978-8)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, Respiratory Trends, MV: MV Peak A, Exp	Mitral Valve A Wave Peak Velocity (LN, 17978-8)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, MV: MV Peak A, Insp	Mitral Valve A Wave Peak Velocity (LN, 17978-8)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: E/A	Mitral Valve E to A Ratio (LN, 18038-0)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: E/A, Exp	Mitral Valve E to A Ratio (LN, 18038-0)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, MV: E/A, Insp	Mitral Valve E to A Ratio (LN, 18038-0)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: DT	Mitral Valve E Wave Deceleration Time (SRT, G-0384)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: DT, Exp	Mitral Valve E Wave Deceleration Time (SRT, G-0384)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, MV: DT, Insp	Mitral Valve E Wave Deceleration Time (SRT, G-0384)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VALVE STENOSIS, Mitral Valve, MV Doppler: MV Peak E	Mitral Valve E Wave Peak Velocity (LN, 18037-2)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: MV Peak E, Exp	Mitral Valve E Wave Peak Velocity (LN, 18037-2)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, MV: MV Peak E, Insp	Mitral Valve E Wave Peak Velocity (LN, 18037-2)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, M-mode, M-mode: MV EPSS VENTRICULAR FUNCTION, LV Systolic Function, Shortening / Wall Stress: MV EPSS	Mitral Valve EPSS E wave (LN, 18036-4)	Image Mode: M-mode (SRT, G-0394)
PRESSURE PREDICTIONS, LASP, LASP: MR Pk Grad	Peak Gradient (LN, 20247-3)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Mitral Valve, MV PISA: MV Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE STENOSIS, Mitral Valve, MV PISA: MV Vmax	Peak Systolic Velocity (LN, 11726-7)	
PRESSURE PREDICTIONS, LASP, LASP: MR Vmax VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR Vmax	Peak Systolic Velocity (LN, 11726-7)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MR Vmax]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE STENOSIS, Mitral Valve, MV Doppler: MV P _{1/2} T	Pressure Half Time (LN, 20280-4)	Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV SI	Stroke Index (SRT, F-00078)	
VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV SV	Stroke Volume (SRT, F-32120)	
BASIC MEASUREMENTS, Basic Doppler Survey, Mitral Valve: MV VTI, leaflet tips VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: VTI, leaflet tips	Velocity Time Integral (LN, 20354-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV VTI]	
BASIC MEASUREMENTS, Basic Doppler Survey, Mitral Valve: MV VTI, Annulus VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MV VTI, Annulus VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: VTI, MV VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV VTI, Annulus	Velocity Time Integral (LN, 20354-7)	Finding Site: Mitral Annulus (SRT, T-35313) Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV VTI]	
VALVE STENOSIS, Mitral Valve, MV Doppler: MV VTI, leaflet tips VALVE STENOSIS, Mitral Valve, MV Continuity Equation: MV VTI, leaflet tips	Velocity Time Integral (LN, 20354-7)	Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV VTI]	
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR VTI VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: MR VTI VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR VTI	Velocity Time Integral (LN, 20354-7)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MR VTI]	
Private Measurements		

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Image Mode: Doppler Color Flow (SRT, R-409E2) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Mitral Valve, MV PISA: MV Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Image Mode: Doppler Color Flow (SRT, R-409E2) Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: Site 2 Area	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: Area, Site 2	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Mitral Valve, MV Continuity Equation: Site 2 Area	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Continuity Equation (DCM, 125212)
VALVE STENOSIS, Mitral Valve, MV 2D Measurements: MV Area/BSA, BP Ellipse	Area Index (99SEQUOIA, AREAidx)	Finding Site: Mitral Annulus (SRT, T-35313) Measurement Method: Biplane Ellipse (DCM, 125211) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Mitral Valve, MV Continuity Equation: MV Area/BSA	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation (DCM, 125212) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Mitral Valve, MV PISA: MV Area/BSA	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Index: Body Surface Area (LN, 8277-6)
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: Site 2 Diam	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 Diam]	
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: Diam, Site 2	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Diam, Site 2]	
VALVE STENOSIS, Mitral Valve, MV Continuity Equation: Site 2 Diam	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Continuity Equation (DCM, 125212)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 Diam]	
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR Eff ROA, A/L	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: 2D (Area/Length) / Doppler (99SEQUOIA, 2ddopal) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR Eff ROA, MOD	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: 2D (MOD) / Doppler (99SEQUOIA, 2ddopmod) Flow Direction: Regurgitant Flow (SRT, R-42E61)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: MR Eff ROA	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VENTRICULAR FUNCTION, Respiratory Trends, MV: LV IVRT % Δ, E to I	LV IVRT % Change, E to I (99SEQUOIA, PCTCHivrt_e_i)	
BASIC MEASUREMENTS, Basic Doppler Survey, Mitral Valve: MV Peak A VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: MV Peak A	Mitral Valve A Wave Peak Velocity (LN, 17978-8)	Finding Site: Leaflet Tips (99SEQUOIA, LeafletTips)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV Peak A]	
BASIC MEASUREMENTS, Basic Doppler Survey, Mitral Valve: MV Peak E VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: MV Peak E	Mitral Valve E Wave Peak Velocity (LN, 18037-2)	Finding Site: Leaflet Tips (99SEQUOIA, LeafletTips)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV Peak E]	
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR Vol	Mitral Valve Regurgitant Volume by Proximal Isovelocity Surface Area Method (LN, 29449-6)	
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR PISA	MR PISA (99SEQUOIA, PISAmr)	
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MR PISA Radius	MR PISA Radius (99SEQUOIA, DIAMmrradpisa)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: A/E % Δ, E to I	MV A/E (vel) % Change, E to I (99SEQUOIA, PCTCHmva_ee_i)	
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: A/E	MV A/E (vel) (99SEQUOIA, RATIOmva_evel)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: A/E, Exp	MV A/E (vel) (99SEQUOIA, RATIOmva_evel)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, MV: A/E, Insp	MV A/E (vel) (99SEQUOIA, RATIOmva_evel)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VALVE STENOSIS, Mitral Valve, MV PISA: MV Funnel Angle	MV CDI Funnel Angle (99SEQUOIA, ANGLEmvcdfilpisa)	
VALVE STENOSIS, Mitral Valve, MV PISA: MV PISA Radius	MV CDI Radius (99SEQUOIA, DIAMmvcdiradpisa)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: DT % Δ, E to I	MV DT % Change, E to I (99SEQUOIA, PCTCHmvdte_i)	
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: E at A	MV E at A Velocity (99SEQUOIA, VELmveata)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: E/A % Δ, E to I	MV E/A (vel) % Change, E to I (99SEQUOIA, PCTCHmve_ae_i)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, Respiratory Trends, MV: Peak A % Δ, E to I	MV Peak A % Change, E to I (99SEQUOIA, PCTCHmvae_i)	
VENTRICULAR FUNCTION, Respiratory Trends, MV: Peak E % Δ, E to I	MV Peak E % Change, E to I (99SEQUOIA, PCTCHmvee_i)	
VENTRICULAR FUNCTION, LV Diastolic Function, MV Flow: PFR/SV	MV PFR/SV (99SEQUOIA, PFRmv)	
VALVE STENOSIS, Mitral Valve, MV PISA: MV PISA	MV PISA (99SEQUOIA, PISAmv)	
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: Area, MV VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV Annulus Area	MV Proximal Area (99SEQUOIA, AREAmvproxmrdd)	
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MV Diam VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: Diam, MV VOLUME FLOW / SHUNTS, Stroke Volume, MV: MV Annulus Diam	MV Proximal Diameter (99SEQUOIA, DIAMmvproxmrdd)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MV Diam]	
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR RF, A/L	Regurgitant Fraction (SRT, G-0390)	Measurement Method: 2D (Area/Length) / Doppler (99SEQUOIA, 2ddopal) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR RF, MOD	Regurgitant Fraction (SRT, G-0390)	Measurement Method: 2D (MOD) / Doppler (99SEQUOIA, 2ddopmod) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: MR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: Site 2 SV	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: SV, Site 2	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by PISA: MV SV VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: SV, MV	Stroke Volume (SRT, F-32120)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: Site 2 VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 VTI]	
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: VTI, Site 2	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI, Site 2]	
VALVE STENOSIS, Mitral Valve, MV Continuity Equation: Site 2 VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Continuity Equation (DCM, 125212)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 VTI]	
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR Vol, A/L	Volume (99SEQUOIA, Volume)	Measurement Method: 2D (Area/Length) / Doppler (99SEQUOIA, 2ddopal) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by 2D/Doppler: MR Vol, MOD	Volume (99SEQUOIA, Volume)	Measurement Method: 2D (MOD) / Doppler (99SEQUOIA, 2ddopmod) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Mitral Valve, MR Volume by Doppler/Doppler: MR Vol	Volume (99SEQUOIA, Volume)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)

14.8 Pulmonic Valve

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Pulmonic Valve	Finding Site: Pulmonic Valve (SRT, T-35200)	
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV AT	Acceleration Time (LN, 20168-1)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PV AT]	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: CSA, Pulmonic	Cardiovascular Orifice Area (SRT, G-038E)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VALVE STENOSIS, Pulmonic Valve, PV PISA: PV Area	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: Diam, Pulmonic ----- [HR not shown on report page]	Cardiovascular Orifice Diameter (SRT, G-038F) Heart Rate (LN, 8867-4) [Property of associated Diam, Pulmonic]	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: Pulm Root Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Pulm Root Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: Pulm Root Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Pulm Root Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
PRESSURE PREDICTIONS, PADP, PADP: PR ed Vel VALVE STENOSIS, Mitral Valve, PA Pressures: PR ed Vel	End Diastolic Velocity (LN, 11653-3)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV Mn Grad ----- [HR not shown on report page]	Mean Gradient (LN, 20256-4) Heart Rate (LN, 8867-4) [Property of associated PV Mn Grad]	Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV Pk Grad	Peak Gradient (LN, 20247-3)	Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE STENOSIS, Pulmonic Valve, PV PISA: RVOT Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV Vmax VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: Vmax, PV ----- [HR not shown on report page]	Peak Systolic Velocity (LN, 11726-7) Heart Rate (LN, 8867-4) [Property of associated PV Vmax]	
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: PV Area, Vmean	Pulmonic Valve Area by Continuity (LN, 18096-8)	Measurement Method: Continuity Equation by Mean Velocity (DCM, 125213)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: PV Area, Vmax	Pulmonic Valve Area by Continuity (LN, 18096-8)	Measurement Method: Continuity Equation by Peak Velocity (DCM, 125214)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: PV Area, VTI	Pulmonic Valve Area by Continuity (LN, 18096-8)	Measurement Method: Continuity Equation by Velocity Time Integral (DCM, 125215)
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV ET	Pulmonic Valve Ejection Time (LN, 18042-2)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PV ET]	
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV AT/ET	Ratio of Pulmonic Valve Acceleration Time to Ejection Time (SRT, G-0388)	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: Vmean, PV	Time Averaged Mean Velocity (LN, 20352-1)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmean, PV]	
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: Vmean, RVOT	Time Averaged Mean Velocity (LN, 20352-1)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VALVE STENOSIS, Pulmonic Valve, PV Doppler: PV VTI VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: VTI, PV	Velocity Time Integral (LN, 20354-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PV VTI]	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: VTI, Pulmonic	Velocity Time Integral (LN, 20354-7)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI, Pulmonic]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR VTI VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: PR VTI VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: PR VTI	Velocity Time Integral (LN, 20354-7)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PR VTI]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Private Measurements		
VALVE STENOSIS, Pulmonic Valve, PV PISA: RVOT Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550) Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: Site 2 Area	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: Area, Site 2	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Pulmonic Valve, PV PISA: PV Area/BSA	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: PV Area/BSA, Vmean	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation by Mean Velocity (DCM, 125213) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: PV Area/BSA, Vmax	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation by Peak Velocity (DCM, 125214) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Pulmonic Valve, PV Continuity Equation: PV Area/BSA, VTI	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation by Velocity Time Integral (DCM, 125215) Index: Body Surface Area (LN, 8277-6)
VENTRICULAR FUNCTION, RV Systolic Function, Doppler: PV AT	Basic Doppler Acceleration Time (99SEQUOIA, AccelTimebasic)	
VENTRICULAR FUNCTION, RV Systolic Function, Doppler: PV AT/ET	Basic Doppler AT/ET (99SEQUOIA, RATIOat_etbasic)	
VENTRICULAR FUNCTION, RV Systolic Function, Doppler: PV ET	Basic Doppler Ejection Time (99SEQUOIA, ETbasic)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PV ET]	
BASIC MEASUREMENTS, Basic Doppler Survey, Pulmonic Valve: PV Pk Grad	Basic Doppler Peak Gradient (99SEQUOIA, PKGRADbasic)	Flow Direction: Antegrade Flow (SRT, R-42047)
BASIC MEASUREMENTS, Basic Doppler Survey, Pulmonic Valve: PV Vmax VALVE STENOSIS, Pulmonic Valve, PV PISA: PV Vmax	Basic Doppler Peak Velocity (99SEQUOIA, VMAXbasic)	Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PV Vmax]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, Basic Doppler Survey, Pulmonic Valve: PV VTI	Basic Doppler Velocity Time Integral (99SEQUOIA,VTIbasic)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PV VTI]	
VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT CI	Cardiac Index (SRT, F-32110)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VOLUME FLOW / SHUNTS, Stroke Volume, PV: RVOT CO	Cardiac Output (SRT, F-32100)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VOLUME FLOW / SHUNTS, Stroke Volume, PV: HR	Heart Rate (LN, 8867-4) [Property of associated RVOT CO]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: Site 2 Diam	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Flow Direction: Regurgitant Flow (SRT, R-42E61) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 Diam]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: Diam, Site 2	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Flow Direction: Regurgitant Flow (SRT, R-42E61) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Diam, Site 2]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: PR Eff ROA	Effective ROA (99SEQUOIA, EffectiveROA)	Flow Direction: Regurgitant Flow (SRT, R-42E61) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: PR Eff ROA, Prol Ell	Effective ROA (99SEQUOIA, EffectiveROA)	Flow Direction: Regurgitant Flow (SRT, R-42E61) Measurement Method: 2D (Prolate Ellipse) / Doppler (99SEQUOIA, 2ddprol)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR Eff ROA	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
PRESSURE PREDICTIONS, PADP, PADP: PR ed Grad	PR End-Diastolic Gradient (99SEQUOIA, PKGRADpr)	
VALVE STENOSIS, Mitral Valve, PA Pressures: PR ed Grad		
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR Vmax	PR Peak Velocity (99SEQUOIA, VMAXpr)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated PR Vmax]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR PISA	PR PISA (99SEQUOIA, PISApr)	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR PISA Radius	PR PISA Radius (99SEQUOIA, DIAMprcdirdslen)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: PR RF, Prol Ell	Regurgitant Fraction (SRT, G-0390)	Measurement Method: 2D (Prolate Ellipse) / Doppler (99SEQUOIA, 2ddprol) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: PR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Pulmonic Valve, PV PISA: RVOT PISA	RVOT PISA (99SEQUOIA, PISApv)	
VALVE STENOSIS, Pulmonic Valve, PV PISA: RVOT PISA Radius	RVOT Radius (99SEQUOIA, DIAMpvrdslenpisa)	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: SV, Site 2	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: Site 2 SV	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: Site 2 VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 VTI]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: VTI, Site 2	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI, Site 2]	
VALVE REGURGITATION, Pulmonary Valve, PR Volume by 2D/Doppler: PR Vol, Prol Ell	Volume (99SEQUOIA, Volume)	Measurement Method: 2D (Prolate Ellipse) / Doppler (99SEQUOIA, 2ddprol) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by Doppler/Doppler: PR Vol	Volume (99SEQUOIA, Volume)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Pulmonary Valve, PR Volume by PISA: PR Vol	Volume (99SEQUOIA, Volume)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)

14.9 Tricuspid Valve

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Tricuspid Valve	Finding Site: Tricuspid Valve (SRT, T-35100)	
VALVE STENOSIS, Tricuspid Valve, TV Continuity Equation: TV Area	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Continuity Equation (DCM, 125212)
VALVE STENOSIS, Tricuspid Valve, TV 2D Measurements: RV Area, planim	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Planimetry (DCM, 125220)
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV Area	Cardiovascular Orifice Area (SRT, G-038E)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Antegrade Flow (SRT, R-42047)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: TV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: TV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: TV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: TV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Apical Four Chamber (SRT, G-A19C) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: TV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX, RVIT/RVOT: TV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: TV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: TV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: TV Annulus Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: TV Annulus Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Finding Site: Tricuspid Annulus (SRT, T-35111) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
VALVE STENOSIS, Tricuspid Valve, TV Doppler: TV DT	Deceleration Time (LN, 20217-6)	Finding Site: Tricuspid Annulus (SRT, T-35111)
VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV DT	Deceleration Time (LN, 20217-6)	Flow Direction: Antegrade Flow (SRT, R-42047)
VENTRICULAR FUNCTION, Respiratory Trends, TV: DT, Exp	Deceleration Time (LN, 20217-6)	Respiratory Cycle Point: During Expiration (SRT, F-20020) Flow Direction: Antegrade Flow (SRT, R-42047)
VENTRICULAR FUNCTION, Respiratory Trends, TV: DT, Insp	Deceleration Time (LN, 20217-6)	Respiratory Cycle Point: During Inspiration (SRT, F-20010) Flow Direction: Antegrade Flow (SRT, R-42047)
VALVE STENOSIS, Tricuspid Valve, TV Doppler: TV Mn Grad	Mean Gradient (LN, 20256-4)	Flow Direction: Antegrade Flow (SRT, R-42047)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV Mn Grad]	
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: TR Pk Grad VALVE STENOSIS, Mitral Valve, PA Pressures: TR Pk Grad VALVE STENOSIS, Pulmonic Valve, PV Doppler: TR Pk Grad	Peak Gradient (LN, 20247-3)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV Inst Flow Rt	Peak Instantaneous Flow Rate (LN, 34141-2)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216)
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV Vmax	Peak Systolic Velocity (LN, 11726-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV Vmax]	
PRESSURE PREDICTIONS, RVSP, RVSP via TR or VSD: TR Vmax VALVE STENOSIS, Mitral Valve, PA Pressures: TR Vmax VALVE STENOSIS, Pulmonic Valve, PV Doppler: TR Vmax VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR Vmax	Peak Systolic Velocity (LN, 11726-7)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TR Vmax]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE STENOSIS, Tricuspid Valve, TV Doppler: TV P½T	Pressure Half Time (LN, 20280-4)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR RF	Regurgitant Fraction (SRT, G-0390)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VENTRICULAR FUNCTION, RV Systolic Function, Doppler: TR dP/dt	Tricuspid Regurgitation dPOverdt (LN, 18034-9)	
VALVE STENOSIS, Tricuspid Valve, TV Doppler: TV Peak A	Tricuspid Valve A Wave Peak Velocity (LN, 18030-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV Peak A]	
VENTRICULAR FUNCTION, Respiratory Trends, TV: TV Peak A, Exp	Tricuspid Valve A Wave Peak Velocity (LN, 18030-7)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, TV: TV Peak A, Insp	Tricuspid Valve A Wave Peak Velocity (LN, 18030-7)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV E/A	Tricuspid Valve E to A Ratio (LN, 18039-8)	
VENTRICULAR FUNCTION, Respiratory Trends, TV: E/A, Exp	Tricuspid Valve E to A Ratio (LN, 18039-8)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, TV: E/A, Insp	Tricuspid Valve E to A Ratio (LN, 18039-8)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VALVE STENOSIS, Tricuspid Valve, TV Doppler: TV Peak E	Tricuspid Valve E Wave Peak Velocity (LN, 18031-5)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV Peak E]	
VENTRICULAR FUNCTION, Respiratory Trends, TV: TV Peak E, Exp	Tricuspid Valve E Wave Peak Velocity (LN, 18031-5)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, TV: TV Peak E, Insp	Tricuspid Valve E Wave Peak Velocity (LN, 18031-5)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Tricuspid Valve: TV VTI, leaflet tips VALVE STENOSIS, Tricuspid Valve, TV Doppler: TV VTI, leaflet tips VALVE STENOSIS, Tricuspid Valve, TV Continuity Equation: TV VTI, leaflet tips VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV VTI, leaflet tips	Velocity Time Integral (LN, 20354-7)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV VTI]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, Basic Doppler Survey, Tricuspid Valve: TV VTI, Annulus VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TV VTI, Annulus VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: VTI, TV VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV VTI, Annulus	Velocity Time Integral (LN, 20354-7)	Finding Site: Tricuspid Annulus (SRT, T-35111)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV VT]	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR VTI VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: TR VTI VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: TR VTI	Velocity Time Integral (LN, 20354-7)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TR VTI]	
Private Measurements		
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR Alias Velocity	Aliasing Velocity (99SEQUOIA, AliasingVel)	Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: Site 2 Area	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: Area, Site 2	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE STENOSIS, Tricuspid Valve, TV Continuity Equation: Site 2 Area	Area (99SEQUOIA, Area)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Continuity Equation (DCM, 125212)
VALVE STENOSIS, Tricuspid Valve, TV 2D Measurements: TV Area, BP Ellipse	Area (99SEQUOIA, Area)	Finding Site: Tricuspid Annulus (SRT, T-35111) Measurement Method: Biplane Ellipse (DCM, 125211)
VALVE STENOSIS, Tricuspid Valve, TV 2D Measurements: TV Area/BSA, BP Ellipse	Area Index (99SEQUOIA, AREAidx)	Finding Site: Tricuspid Annulus (SRT, T-35111) Measurement Method: Biplane Ellipse (DCM, 125211) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Tricuspid Valve, TV Continuity Equation: TV Area/BSA	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Continuity Equation (DCM, 125212) Index: Body Surface Area (LN, 8277-6)
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV Area/BSA	Area Index (99SEQUOIA, AREAidx)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Index: Body Surface Area (LN, 8277-6)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV CI	Cardiac Index (SRT, F-32110)	
VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV CO	Cardiac Output (SRT, F-32100)	
VOLUME FLOW / SHUNTS, Stroke Volume, TV: HR	Heart Rate (LN, 8867-4) [Property of associated TV CO]	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: Site 2 Diam	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 Diam]	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: Diam, Site 2	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Diam, Site 2]	
VALVE STENOSIS, Tricuspid Valve, TV Continuity Equation: Site 2 Diam	Diameter (99SEQUOIA, Diameter)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Continuity Equation (DCM, 125212)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 Diam]	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: TR Eff ROA, Prol Ell	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: 2D (Prolate Ellipse) / Doppler (99SEQUOIA, 2ddprol) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: TR Eff ROA	Effective ROA (99SEQUOIA, EffectiveROA)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: TR RF, Prol Ell	Regurgitant Fraction (SRT, G-0390)	Measurement Method: 2D (Prolate Ellipse) / Doppler (99SEQUOIA, 2ddprol) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: TR RF	Regurgitant Fraction (SRT, G-0390)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV SI	Stroke Index (SRT, F-00078)	
VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV SV	Stroke Volume (SRT, F-32120)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: SV, Site 2	Stroke Volume (SRT, F-32120)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: Site 2 SV	Stroke Volume (SRT, F-32120)	Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TV SV VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: SV, TV	Stroke Volume (SRT, F-32120)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR PISA Radius	TR CDI Radius (99SEQUOIA, DIAMtrcdirdslen)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TV Eff ROA	TR Effective Regurgitant Orifice Area (99SEQUOIA, AREAttrjeteropisa)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR PISA	TR PISA (99SEQUOIA, PISAttr)	
BASIC MEASUREMENTS, Basic Doppler Survey, Tricuspid Valve: TV Peak A VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV Peak A Vel ----- [HR not shown on report page]	Tricuspid Valve A Wave Peak Velocity (LN, 18030-7) Heart Rate (LN, 8867-4) [Property of associated TV Peak A]	Finding Site: Leaflet Tips (99SEQUOIA, LeafletTips)
VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV A/E	Tricuspid Valve A/E (vel) (99SEQUOIA, RATIOtva_evel)	
VENTRICULAR FUNCTION, Respiratory Trends, TV: A/E, Exp	Tricuspid Valve A/E (vel) (99SEQUOIA, RATIOtva_evel)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, TV: A/E, Insp	Tricuspid Valve A/E (vel) (99SEQUOIA, RATIOtva_evel)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VALVE STENOSIS, Tricuspid Valve, TV 2D Measurements: TV Diam, A/P	Tricuspid Valve A/P Diameter (99SEQUOIA, DIAMtva_p)	
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV Funnel Angle	Tricuspid Valve CDI Funnel Angle (99SEQUOIA, ANGLEtvcdfunnel)	
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV PISA Radius	Tricuspid Valve CDI Radius (99SEQUOIA, DIAMtvcdirdslen)	
BASIC MEASUREMENTS, Basic Doppler Survey, Tricuspid Valve: TV Peak E VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV Peak E Vel ----- [HR not shown on report page]	Tricuspid Valve E Wave Peak Velocity (LN, 18031-5) Heart Rate (LN, 8867-4) [Property of associated TV Peak E]	Finding Site: Leaflet Tips (99SEQUOIA, LeafletTips)
VALVE STENOSIS, Tricuspid Valve, TV 2D Measurements: TV Diam, M/L	Tricuspid Valve M/L Diameter (99SEQUOIA, DIAMtvm_l)	
VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV PFR/SV	Tricuspid Valve PFR/SV (99SEQUOIA, PFRtv)	
VENTRICULAR FUNCTION, RV Diastolic Function, TV Flow: TV A Dur	TV A Duration (99SEQUOIA, DURtvatips)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, Respiratory Trends, TV: A/E % Δ, E to I	TV A/E (vel) % Change, E to I (99SEQUOIA, PCTCHtva_ee_i)	
VENTRICULAR FUNCTION, Respiratory Trends, TV: DT % Δ, E to I	TV DT % Change, E to I (99SEQUOIA, PCTCHtvdte_i)	
VENTRICULAR FUNCTION, Respiratory Trends, TV: E/A % Δ, E to I	TV E/A (vel) % Change, E to I (99SEQUOIA, PCTCHtve_ae_i)	
VENTRICULAR FUNCTION, Respiratory Trends, TV: Peak A % Δ, E to I	TV Peak A % Change, E to I (99SEQUOIA, PCTCHtvae_i)	
VENTRICULAR FUNCTION, Respiratory Trends, TV: Peak E % Δ, E to I	TV Peak E % Change, E to I (99SEQUOIA, PCTCHtvee_i)	
VALVE STENOSIS, Tricuspid Valve, TV PISA: TV PISA	TV PISA (99SEQUOIA, PISAtv)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: Area, TV VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV Annulus Area	TV Proximal Area (99SEQUOIA, AREAtvproxtrdd)	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TV Prox Diam VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: Diam, TV VOLUME FLOW / SHUNTS, Stroke Volume, TV: TV Annulus Diam	TV Proximal Diameter (99SEQUOIA, DIAMtvproxtrdd)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated TV Diam]	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: Site 2 VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: 2D/Doppler (99SEQUOIA, 2ddop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 VTI]	
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: VTI, Site 2	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI, Site 2]	
VALVE STENOSIS, Tricuspid Valve, TV Continuity Equation: Site 2 VTI	Velocity Time Integral (LN, 20354-7)	Finding Site: Site 2 (99SEQUOIA, Site2) Measurement Method: Continuity Equation (DCM, 125212)
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Site 2 VTI]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Tricuspid Valve, TR Volume by 2D/Doppler: TR Vol, Prol Ell	Volume (99SEQUOIA, Volume)	Measurement Method: 2D (Prolate Ellipse) / Doppler (99SEQUOIA, 2ddprol) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by Doppler/Doppler: TR Vol	Volume (99SEQUOIA, Volume)	Measurement Method: Doppler/Doppler (99SEQUOIA, dopdop) Flow Direction: Regurgitant Flow (SRT, R-42E61)
VALVE REGURGITATION, Tricuspid Valve, TR Volume by PISA: TR Vol	Volume (99SEQUOIA, Volume)	Measurement Method: Proximal Isovelocity Surface Area (DCM, 125216) Flow Direction: Regurgitant Flow (SRT, R-42E61)

14.10 Aorta

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Aorta	Finding Site: Aorta (SRT, T-42000)	
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Ao Isthmus Diam, Diastole	Aortic Isthmus Diameter (LN, 18014-1)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Ao Isthmus Diam, Systole	Aortic Isthmus Diameter (LN, 18014-1)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: Ao Isthmus Diam, Diastole	Aortic Isthmus Diameter (LN, 18014-1)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: Ao Isthmus Diam, Systole	Aortic Isthmus Diameter (LN, 18014-1)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: Ao Root Diam, Diastole	Aortic Root Diameter (LN, 18015-8)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: Ao Root Diam, Systole	Aortic Root Diameter (LN, 18015-8)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Ao Root Diam, Diastole	Aortic Root Diameter (LN, 18015-8)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Ao Root Diam, Systole	Aortic Root Diameter (LN, 18015-8)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao Root Diam, Diastole	Aortic Root Diameter (LN, 18015-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao Root Diam, Systole	Aortic Root Diameter (LN, 18015-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, M-mode, M-mode: Ao Diam, Diastole	Aortic Root Diameter (LN, 18015-8)	Image Mode: M-mode (SRT, G-0394) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, M-mode, M-mode: Ao Diam, Systole	Aortic Root Diameter (LN, 18015-8)	Image Mode: M-mode (SRT, G-0394) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: AAo Diam, Diastole	Ascending Aortic Diameter (LN, 18012-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: AAo Diam, Systole	Ascending Aortic Diameter (LN, 18012-5)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: Desc Ao Diam, Diastole	Descending Aortic Diameter (LN, 18013-3)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: Desc Ao Diam, Systole	Descending Aortic Diameter (LN, 18013-3)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Desc Ao Diam, Diastole	Descending Aortic Diameter (LN, 18013-3)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Desc Ao Diam, Systole	Descending Aortic Diameter (LN, 18013-3)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
Private Measurements		
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao ST/Ao Root	Ao st junct/Ao root Ratio (99SEQUOIA, RATIOaostjctaort)	
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao ST jnct Diam, Diastole	Aortic Diameter (99SEQUOIA, DIAMao)	Finding Site: Sinotubular Junction (99SEQUOIA, StJunct) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao ST jnct Diam, Systole	Aortic Diameter (99SEQUOIA, DIAMao)	Finding Site: Sinotubular Junction (99SEQUOIA, StJunct) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao Sinus Diam, Diastole	Aortic Diameter (99SEQUOIA, DIAMao)	Finding Site: Sinus (99SEQUOIA, Sinus) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PLAX: Ao Sinus Diam, Systole	Aortic Diameter (99SEQUOIA, DIAMao)	Finding Site: Sinus (99SEQUOIA, Sinus) Image View: Parasternal Long Axis (SRT, G-0396) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: Ao Diam, Diastole	Aortic Diameter (99SEQUOIA, DIAMao)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: Ao Diam, Systole	Aortic Diameter (99SEQUOIA, DIAMao)	Image View: Parasternal Short Axis at the Aortic Valve Level (SRT, G-0398) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: Trans Ao Area, Diastole	Transverse Aorta Area (99SEQUOIA, AREAttransao)	Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: Trans Ao Area, Systole	Transverse Aorta Area (99SEQUOIA, AREAttransao)	Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Trans Ao Diam, Diastole	Transverse Aorta Diameter (99SEQUOIA, DIAMtransao)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: Trans Ao Diam, Systole	Transverse Aorta Diameter (99SEQUOIA, DIAMtransao)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: Trans Ao Diam, Diastole	Transverse Aorta Diameter (99SEQUOIA, DIAMtransao)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: Trans Ao Diam, Systole	Transverse Aorta Diameter (99SEQUOIA, DIAMtransao)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: Trans Ao Diam, Diastole	Transverse Aorta Diameter (99SEQUOIA, DIAMtransao)	Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: Trans Ao Diam, Systole	Transverse Aorta Diameter (99SEQUOIA, DIAMtransao)	Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Systole (SRT, F-32020)

14.11 Pulmonary Artery

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Pulmonary Artery	Finding Site: Pulmonary Artery (SRT, T-44000)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LPA Diam, Diastole	Left Pulmonary Artery Diameter (LN, 18019-0)	Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LPA Diam, Systole	Left Pulmonary Artery Diameter (LN, 18019-0)	Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LPA Diam, Diastole	Left Pulmonary Artery Diameter (LN, 18019-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LPA Diam, Systole	Left Pulmonary Artery Diameter (LN, 18019-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: LPA Diam, Diastole	Left Pulmonary Artery Diameter (LN, 18019-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: LPA Diam, Systole	Left Pulmonary Artery Diameter (LN, 18019-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: LPA Diam, Diastole	Left Pulmonary Artery Diameter (LN, 18019-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: LPA Diam, Systole	Left Pulmonary Artery Diameter (LN, 18019-0)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: MPA Diam, Diastole	Main Pulmonary Artery Diameter (LN, 18020-8)	Image Mode: 2D-mode (SRT, G-03A2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: MPA Diam, Systole	Main Pulmonary Artery Diameter (LN, 18020-8)	Image Mode: 2D-mode (SRT, G-03A2) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: MPA Diam, Diastole	Main Pulmonary Artery Diameter (LN, 18020-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: MPA Diam, Systole	Main Pulmonary Artery Diameter (LN, 18020-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
[Not shown on a report page]	Main Pulmonary Artery Diameter (LN, 18020-8)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RPA Diam, Diastole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RPA Diam, Systole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RPA Diam, Diastole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RPA Diam, Systole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RPA Diam, Diastole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RPA Diam, Systole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: RPA Diam, Diastole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: RPA Diam, Systole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: RPA Diam, Diastole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: RPA Diam, Systole	Right Pulmonary Artery Diameter (LN, 18021-6)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Systole (SRT, F-32020)
Private Measurements		
PRESSURE PREDICTIONS, PADP, PADP: PA diast Press VALVE STENOSIS, Mitral Valve, PA Pressures: PA diast Press	Pulmonary Artery Diastolic Pressure (99SEQUOIA, PRESSpad)	
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: RPA Area, Diastole	Right Pulmonary Artery Area (99SEQUOIA, AREArpa)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: RPA Area, Systole	Right Pulmonary Artery Area (99SEQUOIA, AREArpa)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Systole (SRT, F-32020)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: SI, Pulmonic	Stroke Index (SRT, F-00078)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: SV, Pulmonic	Stroke Volume (SRT, F-32120)	Finding Site: Right Ventricle Outflow Tract (SNM3, T-32550)

14.12 Vena Cava

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Vena Cava	Finding Site: Vena Cava (SRT, T-48600)	
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVC Diam, exp, Diastole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVC Diam, exp, Systole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVC Diam, insp, Diastole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVC Diam, insp, Systole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Systole (SRT, F-32020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVC Diam, exp, Diastole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVC Diam, exp, Systole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVC Diam, insp, Diastole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVC Diam, insp, Systole	Inferior Vena Cava Diameter (LN, 18006-7)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Systole (SRT, F-32020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak A % Δ, E to I	Inferior Vena Cava Percent Collapse (LN, 18050-5)	
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVC % Δ, E to I, Diastole	Inferior Vena Cava Percent Collapse (LN, 18050-5)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: IVC % Δ, E to I, Systole	Inferior Vena Cava Percent Collapse (LN, 18050-5)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVC % Δ, E to I, Diastole	Inferior Vena Cava Percent Collapse (LN, 18050-5)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: IVC % Δ, E to I, Systole	Inferior Vena Cava Percent Collapse (LN, 18050-5)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
Private Measurements		
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: A – TV A dur, IVC	Inferior Vena Cava A – TV A Duration (99SEQUOIA, DURivca_tva)	
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: A dur, IVC	Inferior Vena Cava A Duration (99SEQUOIA, DURivca)	
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: A Vmax, IVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: A Vmax, IVC	Inferior Vena Cava Peak A (99SEQUOIA, VMAXivca)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak A, Exp	Inferior Vena Cava Peak A (99SEQUOIA, VMAXivca)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak A, Insp	Inferior Vena Cava Peak A (99SEQUOIA, VMAXivca)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D Vmax, IVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: D Vmax, IVC	Inferior Vena Cava Peak D (99SEQUOIA, VMAXivcd)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak D, Exp	Inferior Vena Cava Peak D (99SEQUOIA, VMAXivcd)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak D, Insp	Inferior Vena Cava Peak D (99SEQUOIA, VMAXivcd)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S Vmax, IVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: S Vmax, IVC	Inferior Vena Cava Peak S (99SEQUOIA, VMAXivcs)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak S, Exp	Inferior Vena Cava Peak S (99SEQUOIA, VMAXivcs)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak S, Insp	Inferior Vena Cava Peak S (99SEQUOIA, VMAXivcs)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: S/D Vel ratio, IVC	Inferior Vena Cava S/D Ratio (99SEQUOIA, RATIOivcs_d)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC S/D, Exp	Inferior Vena Cava S/D Ratio (99SEQUOIA, RATIOivcs_d)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC S/D, Insp	Inferior Vena Cava S/D Ratio (99SEQUOIA, RATIOivcs_d)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D VTI, IVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: D VTI, IVC	Inferior Vena Cava VTI (99SEQUOIA, VTIivc)	Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S VTI, IVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: S VTI, IVC	Inferior Vena Cava VTI (99SEQUOIA, VTIivc)	Cardiac Cycle Point: Systole (SRT, F-32020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak D % Δ, E to I	IVC Peak D % Change, E to I (99SEQUOIA, PCTCHivcde_i)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC Peak S % Δ, E to I	IVC Peak S % Change, E to I (99SEQUOIA, PCTCHivcse_i)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: IVC S/D % Δ, E to I	IVC S/D % Change, E to I (99SEQUOIA, PCTCHivcs_de_i)	
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: Sys Filling Frac, IVC	IVC Systolic Filling Fraction (99SEQUOIA, RATIOivcss_d)	
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: A – TV A dur, SVC	Superior Vena Cava A – TV A Duration (99SEQUOIA, DURsvca_tva)	
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: A dur, SVC	Superior Vena Cava A Duration (99SEQUOIA, DURsvca)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: SVC Diam, exp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: SVC Diam, exp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: SVC Diam, insp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: SVC Diam, insp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Long Axis (SRT, G-039E) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: SVC Diam, exp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: SVC Diam, exp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: SVC Diam, insp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: SVC Diam, insp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Subcostal Short Axis (SRT, G-039F) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: SVC Diam, exp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Long Axis (SRT, G-03A0) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: SVC Diam, exp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Long Axis (SRT, G-03A0) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: SVC Diam, insp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Long Axis (SRT, G-03A0) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: SVC Diam, insp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Long Axis (SRT, G-03A0) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: SVC Diam, exp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Short Axis (SRT, G-03A1) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: SVC Diam, exp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Short Axis (SRT, G-03A1) Respiratory Cycle Point: During Expiration (SRT, F-20020) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: SVC Diam, insp, Diastole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Short Axis (SRT, G-03A1) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: SVC Diam, insp, Systole	Superior Vena Cava Diameter (99SEQUOIA, DIAMsvc)	Image View: Suprasternal Short Axis (SRT, G-03A1) Respiratory Cycle Point: During Inspiration (SRT, F-20010) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: A Vmax, SVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: A Vmax, SVC	Superior Vena Cava Peak A (99SEQUOIA, VMAXsvca)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak A, Exp	Superior Vena Cava Peak A (99SEQUOIA, VMAXsvca)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak A, Insp	Superior Vena Cava Peak A (99SEQUOIA, VMAXsvca)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D Vmax, SVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: D Vmax, SVC	Superior Vena Cava Peak D (99SEQUOIA, VMAXsvcd)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak D, Exp	Superior Vena Cava Peak D (99SEQUOIA, VMAXsvcd)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak D, Insp	Superior Vena Cava Peak D (99SEQUOIA, VMAXsvcd)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S Vmax, SVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: S Vmax, SVC	Superior Vena Cava Peak S (99SEQUOIA, VMAXsvcs)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak S, Exp	Superior Vena Cava Peak S (99SEQUOIA, VMAXsvcs)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak S, Insp	Superior Vena Cava Peak S (99SEQUOIA, VMAXsvcs)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: S/D Vel ratio, SVC	Superior Vena Cava S/D Ratio (99SEQUOIA, RATIOSvcs_d)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC S/D, Exp	Superior Vena Cava S/D Ratio (99SEQUOIA, RATIOSvcs_d)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC S/D, Insp	Superior Vena Cava S/D Ratio (99SEQUOIA, RATIOSvcs_d)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D VTI, SVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: D VTI, SVC	Superior Vena Cava VTI (99SEQUOIA, VTIsvc)	Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S VTI, SVC VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: S VTI, SVC	Superior Vena Cava VTI (99SEQUOIA, VTIsvc)	Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: SVC % Δ, E to I, Diastole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: SVC % Δ, E to I, Systole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Subcostal Long Axis (SRT, G-039E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: SVC % Δ, E to I, Diastole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: SVC % Δ, E to I, Systole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Subcostal Short Axis (SRT, G-039F) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: SVC % Δ, E to I, Diastole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN LAX: SVC % Δ, E to I, Systole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Suprasternal Long Axis (SRT, G-03A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: SVC % Δ, E to I, Diastole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: SVC % Δ, E to I, Systole	SVC % Change, E to I (99SEQUOIA, PCTCHsvce_i)	Image View: Suprasternal Short Axis (SRT, G-03A1) Cardiac Cycle Point: Systole (SRT, F-32020)
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak A % Δ, E to I	SVC Peak A % Change, E to I (99SEQUOIA, PCTCHsvcae_i)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak D % Δ, E to I	SVC Peak Diastole % Change, E to I (99SEQUOIA, PCTCHsvcde_idop)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC Peak S % Δ, E to I	SVC Peak Systole % Change, E to I (99SEQUOIA, PCTCHsvcse_idop)	
VENTRICULAR FUNCTION, Respiratory Trends, Systemic Veins: SVC S/D % Δ, E to I	SVC S/D % Change, E to I (99SEQUOIA, PCTCHsvcs_de_i)	
VENTRICULAR FUNCTION, RV Diastolic Function, Systemic Venous Flow: Sys Filling Frac, SVC	SVC Systolic Filling Fraction (99SEQUOIA, RATIOsvcss_d)	

14.13 Pulmonary Venous Structure

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Pulmonary Venous Structure	Finding Site: Pulmonary Venous Structure (SRT, T-48581)	
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S Vmax, LLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S Vmax, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S Vmax, LLPV	Pulmonary Vein Systolic Peak Velocity (LN, 29450-4)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S Vmax, LUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S Vmax, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S Vmax, LUPV	Pulmonary Vein Systolic Peak Velocity (LN, 29450-4)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S Vmax, RLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S Vmax, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S Vmax, RLPV	Pulmonary Vein Systolic Peak Velocity (LN, 29450-4)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S Vmax, RUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S Vmax, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S Vmax, RUPV	Pulmonary Vein Systolic Peak Velocity (LN, 29450-4)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D Vmax, LLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D Vmax, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D Vmax, LLPV	Pulmonary Vein Diastolic Peak Velocity (LN, 29451-2)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D Vmax, LUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D Vmax, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D Vmax, LUPV	Pulmonary Vein Diastolic Peak Velocity (LN, 29451-2)	Topographical Modifier: Left Upper Segment (SRT, R-40491)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D Vmax, RLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D Vmax, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D Vmax, RLPV	Pulmonary Vein Diastolic Peak Velocity (LN, 29451-2)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D Vmax, RUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D Vmax, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D Vmax, RUPV	Pulmonary Vein Diastolic Peak Velocity (LN, 29451-2)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: S/D, Exp	Pulmonary Vein Systolic to Diastolic Ratio (LN, 29452-0)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: S/D, Insp	Pulmonary Vein Systolic to Diastolic Ratio (LN, 29452-0)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S/D Vel ratio, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S/D Vel ratio, LLPV	Pulmonary Vein Systolic to Diastolic Ratio (LN, 29452-0)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S/D Vel ratio, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S/D Vel ratio, LUPV	Pulmonary Vein Systolic to Diastolic Ratio (LN, 29452-0)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S/D Vel ratio, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S/D Vel ratio, RLPV	Pulmonary Vein Systolic to Diastolic Ratio (LN, 29452-0)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S/D Vel ratio, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S/D Vel ratio, RUPV	Pulmonary Vein Systolic to Diastolic Ratio (LN, 29452-0)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Dur, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Dur, LLPV	Pulmonary Vein A Wave Duration (SRT, G-038B)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Dur, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Dur, LUPV	Pulmonary Vein A Wave Duration (SRT, G-038B)	Topographical Modifier: Left Upper Segment (SRT, R-40491)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Dur, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Dur, RLPV	Pulmonary Vein A Wave Duration (SRT, G-038B)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Dur, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Dur, RUPV	Pulmonary Vein A Wave Duration (SRT, G-038B)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D VTI, LLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D VTI, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D VTI, LLPV	Pulmonary Vein D Wave Velocity Time Integral (SRT, G-038D)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D VTI, LUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D VTI, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D VTI, LUPV	Pulmonary Vein D Wave Velocity Time Integral (SRT, G-038D)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D VTI, RLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D VTI, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D VTI, RLPV	Pulmonary Vein D Wave Velocity Time Integral (SRT, G-038D)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: D VTI, RUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: D VTI, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: D VTI, RUPV	Pulmonary Vein D Wave Velocity Time Integral (SRT, G-038D)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S VTI, LLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S VTI, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S VTI, LLPV	Pulmonary Vein S Wave Velocity Time Integral (SRT, G-038C)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S VTI, LUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S VTI, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S VTI, LUPV	Pulmonary Vein S Wave Velocity Time Integral (SRT, G-038C)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S VTI, RLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S VTI, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S VTI, RLPV	Pulmonary Vein S Wave Velocity Time Integral (SRT, G-038C)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: S VTI, RUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: S VTI, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: S VTI, RUPV	Pulmonary Vein S Wave Velocity Time Integral (SRT, G-038C)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
Private Measurements		
BASIC MEASUREMENTS, 2D Dimensions, A4C: LLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: LUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, A4C: RLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, A4C: RUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Apical Four Chamber (SRT, G-A19C) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: LLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: LLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: LUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: LUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: RLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: RLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: RUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, SSN SAX: RUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Suprasternal Short Axis (SRT, G-03A1) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: LUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal LAX: RUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Long Axis (SRT, G-039E) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Diastole (SRT, F-32010)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Left Lower Segment (SRT, R-4214B) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: LUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Left Upper Segment (SRT, R-40491) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RLPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RLPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Right Lower Segment (SRT, R-4049E) Cardiac Cycle Point: Systole (SRT, F-32020)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RUPV Diam, Diastole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Diastole (SRT, F-32010)
BASIC MEASUREMENTS, 2D Dimensions, Subcostal SAX: RUPV Diam, Systole	Cardiovascular Orifice Diameter (SRT, G-038F)	Image Mode: 2D-mode (SRT, G-03A2) Image View: Subcostal Short Axis (SRT, G-039F) Topographical Modifier: Right Upper Segment (SRT, R-404A0) Cardiac Cycle Point: Systole (SRT, F-32020)
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A – MV A Dur, LLPV	PV A – MV A Duration (99SEQUOIA, DURpva_mva)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A – MV A Dur, LUPV	PV A – MV A Duration (99SEQUOIA, DURpva_mva)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A – MV A Dur, RLPV	PV A – MV A Duration (99SEQUOIA, DURpva_mva)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A – MV A Dur, RUPV	PV A – MV A Duration (99SEQUOIA, DURpva_mva)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak A % Δ, E to I	PV Peak A % Change, E to I (99SEQUOIA, PCTCHpveinae_i)	
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak A, Exp	PV Peak A (99SEQUOIA, VMAXpveina)	Respiratory Cycle Point: During Expiration (SRT, F-20020)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak A, Insp	PV Peak A (99SEQUOIA, VMAXpveina)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: A Vmax, LLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Vmax, LLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Vmax, LLPV	PV Peak A (99SEQUOIA, VMAXpveina)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: A Vmax, LUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Vmax, LUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Vmax, LUPV	PV Peak A (99SEQUOIA, VMAXpveina)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: A Vmax, RLPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Vmax, RLPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Vmax, RLPV	PV Peak A (99SEQUOIA, VMAXpveina)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
BASIC MEASUREMENTS, Basic Doppler Survey, Venous Flow: A Vmax, RUPV VALVE REGURGITATION, Mitral Valve, Pulmonary Venous Flow: A Vmax, RUPV VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: A Vmax, RUPV	PV Peak A (99SEQUOIA, VMAXpveina)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak D % Δ, E to I	PV Peak D % Change, E to I (99SEQUOIA, PCTCHpveinde_i)	
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak D, Exp	PV Peak D (99SEQUOIA, VMAXpveind)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak D, Insp	PV Peak D (99SEQUOIA, VMAXpveind)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak S % Δ, E to I	PV Peak S % Change, E to I (99SEQUOIA, PCTCHpveinse_i)	
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak S, Exp	PV Peak S (99SEQUOIA, VMAXpveins)	Respiratory Cycle Point: During Expiration (SRT, F-20020)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: Peak S, Insp	PV Peak S (99SEQUOIA, VMAXpveins)	Respiratory Cycle Point: During Inspiration (SRT, F-20010)
VENTRICULAR FUNCTION, Respiratory Trends, Pulmonary Veins: S/D Vel % Δ, E to I	PV S/D % Change, E to I (99SEQUOIA, PCTCHpveins_de_i)	
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: Sys Filling Frac, LLPV	PV Systolic Filling Fraction (99SEQUOIA, RATIOPvssd)	Topographical Modifier: Left Lower Segment (SRT, R-4214B)

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: Sys Filling Frac, LUPV	PV Systolic Filling Fraction (99SEQUOIA, RATIOpvssd)	Topographical Modifier: Left Upper Segment (SRT, R-40491)
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: Sys Filling Frac, RLPV	PV Systolic Filling Fraction (99SEQUOIA, RATIOpvssd)	Topographical Modifier: Right Lower Segment (SRT, R-4049E)
VENTRICULAR FUNCTION, LV Diastolic Function, Pulmonary Venous Flow: Sys Filling Frac, RUPV	PV Systolic Filling Fraction (99SEQUOIA, RATIOpvssd)	Topographical Modifier: Right Upper Segment (SRT, R-404A0)

14.14 Cardiac Shunt Study

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Modifiers
Cardiac Shunt Study	Finding Site: Cardiac Shunt Study (SRT, P3-30031)	
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: Qp/Qs	Pulmonary to Systemic Shunt Flow Ratio (LN, 29462-9)	
Private Measurements		
VOLUME FLOW / SHUNTS, Shunts, Systemic vs. Pulmonic: Qp - Qs	Qp - Qs (99SEQUOIA, VOLqp_ql_rshunt)	

14.15 Wall Motion Analysis

Note: A Subject UID and Subject ID are defined for each stage.

Label Headings: Measurement	Measurement Code Meaning (Coding Scheme Designator, Code Value)	Measurement Value or Value Meaning (Coding Scheme Designator, Code Value)
Wall Motion Analysis	Container: Findings (DCM, 121070)	
<Stage Name>: Index	LV Wall Motion Score Index (DCM, 125202)	
<Stage Name>: LAD	LV Wall Scoring: Left Anterior Descending (99SEQUOIA, WSlad)	
<Stage Name>: LCCA	LV Wall Scoring: Left Circumflex Artery (99SEQUOIA, WSlcca)	
<Stage Name>: % Normal	LV Wall Scoring: Percent of Normal (99SEQUOIA, WSpersentNormal)	
<Stage Name>: RMCA	LV Wall Scoring: Right Main Coronary Artery (99SEQUOIA, WSRmca)	
Stages		
LV Wall Scoring: Rest	Stage (LN, 18139-6) Subject ID	Image Acquisition at Baseline (SNM3, P5-01201) "Rest"

Label Headings: Measurement	Measurement Code Meaning (Coding Scheme Designator, Code Value)	Measurement Value or Value Meaning (Coding Scheme Designator, Code Value)
LV Wall Scoring: Imm Post	Stage (LN, 18139-6) Subject ID	Peak Stress Image Acquisition (SNM3, P5-01204) "Imm Post"
LV Wall Scoring: Baseline	Stage (LN, 18139-6) Subject ID	Image Acquisition at Baseline (SNM3, P5-01201) "Baseline"
LV Wall Scoring: Low Dose	Stage (LN, 18139-6) Subject ID	Image Acquisition at Low Dose (SNM3, P5-01311) "Low Dose"
LV Wall Scoring: High Dose	Stage (LN, 18139-6) Subject ID	Image Acquisition at Peak Dose (SNM3, P5-01313) "High Dose"
LV Wall Scoring: Recovery	Stage (LN, 18139-6) Subject ID	Image Acquisition during Recovery (SNM3, P5-01205) "Recovery"
Myocardial Wall Segments (16-Segment Model)		
	Wall Segment (LN, 18179-2)	LV Mid Anterior Septum (99SEQUOIA, MidAnterSeptum)
	Wall Segment (LN, 18179-2)	LV Basal Anterior Septum (99SEQUOIA, BasalAnterSeptum)
	Wall Segment (LN, 18179-2)	LV Basal Posterior (99SEQUOIA, BasalPosterior)
	Wall Segment (LN, 18179-2)	LV Mid Posterior (99SEQUOIA, MidPosterior)
	Wall Segment (LN, 18179-2)	LV Apical Lateral (99SEQUOIA, ApicalLateral)
	Wall Segment (LN, 18179-2)	LV Mid Lateral (99SEQUOIA, MidLateral)
	Wall Segment (LN, 18179-2)	LV Basal Lateral (99SEQUOIA, BasalLateral)
	Wall Segment (LN, 18179-2)	LV Basal Septum (99SEQUOIA, BasalSeptum)
	Wall Segment (LN, 18179-2)	LV Mid Septum (99SEQUOIA, MidSeptum)
	Wall Segment (LN, 18179-2)	LV Apical Septum (99SEQUOIA, ApicalSeptum)
	Wall Segment (LN, 18179-2)	LV Apical Anterior (99SEQUOIA, ApicalAnterior)
	Wall Segment (LN, 18179-2)	LV Mid Anterior (99SEQUOIA, MidAnterior)
	Wall Segment (LN, 18179-2)	LV Basal Anterior (99SEQUOIA, BasalAnterior)
	Wall Segment (LN, 18179-2)	LV Basal Inferior (99SEQUOIA, BasalInferior)
	Wall Segment (LN, 18179-2)	LV Mid Inferior (99SEQUOIA, MidInferior)
	Wall Segment (LN, 18179-2)	LV Apical Inferior (99SEQUOIA, ApicalInferior)
Scoring		
	Score (SRT, G-C1E3)	0
	Cardiac Wall Motion (SRT, F-32050)	Not visualized (DCM, 122288)
	Score (SRT, G-C1E3)	1
	Cardiac Wall Motion (SRT, F-32050)	Normal Wall Motion (SRT, R-00344)
	Score (SRT, G-C1E3)	2
	Cardiac Wall Motion (SRT, F-32050)	Hypokinesis (SRT, R-4041B)
	Score (SRT, G-C1E3)	3
	Cardiac Wall Motion (SRT, F-32050)	Akinesis (SRT, F-30004)

Label Headings: Measurement	Measurement Code Meaning (Coding Scheme Designator, Code Value)	Measurement Value or Value Meaning (Coding Scheme Designator, Code Value)
	Score (SRT, G-C1E3)	4
	Cardiac Wall Motion (SRT, F-32050)	Dyskinesis (SRT, F-32052)
	Score (SRT, G-C1E3)	5
	Cardiac Wall Motion (SRT, F-32050)	Ventricular Aneurysm (SRT, D3-10510)

14.16 Private Section: Clips References

Label	Code Meaning (Coding Scheme Designator, Code Value)	Notes
Clips References	Container: Clips References (99SEQUOIA, ClipsRefs)	
[Not shown on a report page]	Clip Reference (99SEQUOIA, ClipRef)	

14.17 Private Section: Coronary Artery

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
Coronary Artery	Container: Coronary Artery (99SEQUOIA, CoronaryArtery)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LAD Diam, Diastole	Left Ant. Desc. Coronary Artery Diameter, Diastole (99SEQUOIA, DIAMcoroladd)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LAD Diam, Systole	Left Ant. Desc. Coronary Artery Diameter, Systole (99SEQUOIA, DIAMcorolads)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LCCA Diam, Diastole	Left Circumflex Coronary Artery Diameter, Diastole (99SEQUOIA, DIAMcorolcird)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LCCA Diam, Systole	Left Circumflex Coronary Artery Diameter, Systole (99SEQUOIA, DIAMcorolcirds)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LMCA Diam, Diastole	Left Main Coronary Artery Diameter, Diastole (99SEQUOIA, DIAMcorolmaind)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LMCA Diam, Systole	Left Main Coronary Artery Diameter, Systole (99SEQUOIA, DIAMcorolmains)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RMCA Diam, Diastole	Right Main Coronary Artery Diameter, Diastole (99SEQUOIA, DIAMcorormaind)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: RMCA Diam, Systole	Right Main Coronary Artery Diameter, Systole (99SEQUOIA, DIAMcorormains)	
BASIC MEASUREMENTS, 2D Dimensions, PSAX, AoV Level: LMCA/Ao	Left Main Coronary Artery Diameter/Ao Ratio (99SEQUOIA, RATIOdiamlmcaao)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: MeanVel, d	Generic Mean Velocity Ratio, Diastole (99SEQUOIA, RVELMngendcafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: MeanVel, R-R	Generic Mean Velocity Ratio, R-R (99SEQUOIA, RVELMngenrrcafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: MeanVel, s	Generic Mean Velocity Ratio, Systole (99SEQUOIA, RVELMngenscafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: MeanVel, d	Left Ant. Desc. Mean Velocity Ratio, Diastole (99SEQUOIA, RVELMnladdcafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: MeanVel, R-R	Left Ant. Desc. Mean Velocity Ratio, R-R (99SEQUOIA, RVELMnladrrcafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: MeanVel, s	Left Ant. Desc. Mean Velocity Ratio, Systole (99SEQUOIA, RVELMnladscafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: Vmax, d	Generic VMAX Ratio, Diastole (99SEQUOIA, RVMAXgendcafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: Vmax, s	Generic VMAX Ratio, Systole (99SEQUOIA, RVMAXgenscafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: Vmax, d	Left Ant. Desc. VMAX Ratio, Diastole (99SEQUOIA, RVMAXladdcafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: Vmax, s	Left Ant. Desc. VMAX Ratio, Systole (99SEQUOIA, RVMAXladscfr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: VTI, d	Generic VTI Ratio, Diastole (99SEQUOIA, RVTIgendcafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: VTI, R-R	Generic VTI Ratio, R-R (99SEQUOIA, RVTIgenrrcafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Ratio: VTI, s	Generic VTI Ratio, Systole (99SEQUOIA, RVTIgenscafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: VTI, d	Left Ant. Desc. VTI Ratio, Diastole (99SEQUOIA, RVTIladdcafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: VTI, R-R	Left Ant. Desc. VTI Ratio, R-R (99SEQUOIA, RVTIladrrcafr)	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Ratio: VTI, s	Left Ant. Desc. VTI Ratio, Systole (99SEQUOIA, RVTIladscafr)	
CORONARY ARTERY FLOW, Flow Reserve, Generic: MeanVel, d, Baseline	Generic Mean Velocity Baseline, Diastole (99SEQUOIA, Vmgendcafrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
CORONARY ARTERY FLOW, Flow Reserve, Generic: MeanVel, d, Peak Hyp	Generic Mean Velocity Peak Hypremia, Diastole (99SEQUOIA, Vmgendcaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: MeanVel, R-R, Baseline	Generic Mean Velocity Baseline, R-R (99SEQUOIA, Vmgenrrcaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: MeanVel, R-R, Peak Hyp	Generic Mean Velocity Peak Hypremia, R-R (99SEQUOIA, Vmgenrrcaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: MeanVel, s, Baseline	Generic Mean Velocity Baseline, Systole (99SEQUOIA, Vmgenscaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: MeanVel, s, Peak Hyp	Generic Mean Velocity Peak Hypremia, Systole (99SEQUOIA, Vmgenscaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Velocities, Generic: MeanVel, d, Site 1	Generic Mean Velocity, Diastole, Site 1 (99SEQUOIA, Vmgens1cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Velocities, Generic: MeanVel, d, Site 2	Generic Mean Velocity, Diastole, Site 2 (99SEQUOIA, Vmgens2cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: MeanVel, d, Baseline	LAD Mean Velocity Baseline, Diastole (99SEQUOIA, Vmladdcaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: MeanVel, d, Peak Hyp	LAD Mean Velocity Peak Hypremia, Diastole (99SEQUOIA, Vmladdcaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
CORONARY ARTERY FLOW, Flow Reserve, LAD: MeanVel, R-R, Baseline	LAD Mean Velocity Baseline, R-R (99SEQUOIA, Vmladrrcaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: MeanVel, R-R, Peak Hyp	LAD Mean Velocity Peak Hypremia, R-R (99SEQUOIA, Vmladrrcaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: MeanVel, s, Baseline	LAD Mean Velocity Baseline, Systole (99SEQUOIA, Vmladscaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: MeanVel, s, Peak Hyp	LAD Mean Velocity Peak Hypremia, Systole (99SEQUOIA, Vmladscaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Velocities, LAD: MeanVel, d, Site 1	LAD Mean Velocity, Diastole, Site 1 (99SEQUOIA, Vmlads1cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Velocities, LAD: MeanVel, d, Site 2	LAD Mean Velocity, Diastole, Site 2 (99SEQUOIA, Vmlads2cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated MeanVel]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Vmax, d, Baseline	Generic VMAX Baseline, Diastole (99SEQUOIA, Vxgendcaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Vmax, d, Peak Hyp	Generic VMAX Peak Hypremia, Diastole (99SEQUOIA, Vxgendcaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: Vmax, s, Baseline	Generic VMAX Baseline, Systole (99SEQUOIA, Vxgenscaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
CORONARY ARTERY FLOW, Flow Reserve, Generic: Vmax, s, Peak Hyp	Generic VMAX Peak Hypremia, Systole (99SEQUOIA, Vxgenscaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Velocities, Generic: Vmax, d, Site 1	Generic VMAX, Diastole, Site 1 (99SEQUOIA, Vxgens1cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Velocities, Generic: Vmax, d, Site 2	Generic VMAX, Diastole, Site 2 (99SEQUOIA, Vxgens2cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Vmax, d, Baseline	LAD VMAX Baseline, Diastole (99SEQUOIA, Vxladdcaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Vmax, d, Peak Hyp	LAD VMAX Peak Hypremia, Diastole (99SEQUOIA, Vxladdcaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Vmax, s, Baseline	LAD VMAX Baseline, Systole (99SEQUOIA, Vxladscaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: Vmax, s, Peak Hyp	LAD VMAX Peak Hypremia, Systole (99SEQUOIA, Vxladscaffrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Velocities, LAD: Vmax, d, Site 1	LAD VMAX, Diastole, Site 1 (99SEQUOIA, Vxlads1cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	
CORONARY ARTERY FLOW, Velocities, LAD: Vmax, d, Site 2	LAD VMAX, Diastole, Site 2 (99SEQUOIA, Vxlads2cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated Vmax]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
CORONARY ARTERY FLOW, Flow Reserve, Generic: VTI, d, Baseline	Generic VTI Baseline, Diastole (99SEQUOIA, Vtgendcafrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: VTI, d, Peak Hyp	Generic VTI Peak Hypremia, Diastole (99SEQUOIA, Vtgendcafrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: VTI, R-R, Baseline	Generic VTI Baseline, R-R (99SEQUOIA, Vtgenrrcafrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: VTI, R-R, Peak Hyp	Generic VTI Peak Hypremia, R-R (99SEQUOIA, Vtgenrrcafrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: VTI, s, Baseline	Generic VTI Baseline, Systole (99SEQUOIA, Vtgenscafrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, Generic: VTI, s, Peak Hyp	Generic VTI Peak Hypremia, Systole (99SEQUOIA, Vtgenscafrpk)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Velocities, Generic: VTI, d, Site 1	Generic VTI, Diastole, Site 1 (99SEQUOIA, Vtgens1cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Velocities, Generic: VTI, d, Site 2	Generic VTI, Diastole, Site 2 (99SEQUOIA, Vtgens2cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: VTI, d, Baseline	LAD VTI Baseline, Diastole (99SEQUOIA, Vtladdcafrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
CORONARY ARTERY FLOW, Flow Reserve, LAD: VTI, d, Peak Hyp	LAD VTI Peak Hypremia, Diastole (99SEQUOIA, Vtladdcaffrpkl)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: VTI, R-R, Baseline	LAD VTI Baseline, R-R (99SEQUOIA, Vtladrrcaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: VTI, R-R, Peak Hyp	LAD VTI Peak Hypremia, R-R (99SEQUOIA, Vtladrrcaffrpkl)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: VTI, s, Baseline	LAD VTI Baseline, Systole (99SEQUOIA, Vtladscaffrbsln)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Flow Reserve, LAD: VTI, s, Peak Hyp	LAD VTI Peak Hypremia, Systole (99SEQUOIA, Vtladscaffrpkl)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Velocities, LAD: VTI, d, Site 1	LAD VTI, Diastole, Site 1 (99SEQUOIA, Vtlads1cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	
CORONARY ARTERY FLOW, Velocities, LAD: VTI, d, Site 2	LAD VTI, Diastole, Site 2 (99SEQUOIA, Vtlads2cafvel)	
[HR not shown on report page]	Heart Rate (LN, 8867-4) [Property of associated VTI]	

14.18 Private Section: Generic Site Measurements

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
Generic Site Measurements	Container: Generic Site Measurements (99SEQUOIA, GenericSiteSectn)	
VALVE STENOSIS, Generic Site, Generic PISA: Funnel Angle	Site CDI Funnel Angle (99SEQUOIA, ANGLEsitecdifl)	
VALVE STENOSIS, Generic Site, Continuity Equation: Site 1 Area	Site 1 Area (99SEQUOIA, AREAsite1gence)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
VALVE STENOSIS, Generic Site, Continuity Equation: Site 2 Area	Site 2 Area (99SEQUOIA, AREAsite2gence)	
VALVE STENOSIS, Generic Site, Continuity Equation: Site 2 Area/BSA	Site 2 Area Index (BSA) (99SEQUOIA, AREAsite2igence)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site Eff ROA	Site Effective ROA (99SEQUOIA, AREAsitejetero)	
VALVE STENOSIS, Generic Site, Generic PISA: Site Area	Site Area, PISA (99SEQUOIA, AREAsitepisa)	
VALVE STENOSIS, Generic Site, Generic PISA: Site Area/BSA	Site Area Index (BSA), PISA (99SEQUOIA, AREAsitepisaidx)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Diameter	Site Prox Diameter (99SEQUOIA, DIAMgenrfsite)	
VALVE STENOSIS, Generic Site, Continuity Equation: Site 1 Diam	Site 1 Diameter (99SEQUOIA, DIAMsite1gence)	
VALVE STENOSIS, Generic Site, Generic PISA: Site PISA Radius	Site PISA Radius (99SEQUOIA, DIAMsitecdirdsln)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site PISA Radius	Site CDI Radius (99SEQUOIA, DIAMsitecdirdsl)	
VALVE STENOSIS, Generic Site, Generic PISA: Site PISA	Site PISA (99SEQUOIA, PISAsite)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site PISA	Site PISA, Regurgitant Flow (99SEQUOIA, PISAsitereg)	
VALVE STENOSIS, Generic Site, Generic PISA: Site Inst Flow Rt	Site Instantaneous Flow Rate, PISA (99SEQUOIA, PKFLOWsitepisa)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site Inst Flow Rt	Site Instantaneous Flow Rate, PISA, Regurgitant Flow (99SEQUOIA, PKFLOWsitergpisa)	
PRESSURE PREDICTIONS, Expanded Bernoulli, Expanded Bernoulli: Site Pk Grad	Site Pressure Gradient, Full Bernoulli (99SEQUOIA, PKGRADfullbern)	
PRESSURE PREDICTIONS, Simplified Bernoulli, Simplified Bernoulli: Site Pk Grad	Site Peak Pressure Gradient, Simplified Bernoulli (99SEQUOIA, PKGRADsimpbern)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site RF	Site Regurgitant Fraction (99SEQUOIA, RFsitepisa)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: SV	Site Prox Stroke Volume (99SEQUOIA, SVgenrfsite)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site Alias Velocity	Site Aliasing Velocity (99SEQUOIA, VELsitecdireg)	
VALVE STENOSIS, Generic Site, Generic PISA: Site Alias Velocity	Site Aliasing Velocity (99SEQUOIA, VELsitecdisten)	

Label Headings: Measurement	Code Meaning (Coding Scheme Designator, Code Value)	Notes
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site Regurg Vmax ----- [HR not shown on report page]	Site Regurgitant VMAX (99SEQUOIA, VMAXsiteregpisa) Heart Rate (LN, 8867-4) [Property of associated Site Regurg Vmax]	
VALVE STENOSIS, Generic Site, Generic PISA: Site Vmax	Site VMAX (99SEQUOIA, VMAXsitestenpisa)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site Regurg Vol	Site Regurgitant Volume, PISA (99SEQUOIA, VOLsitergrgpisa)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: VTI	Site Forward VTI (99SEQUOIA, VTlgenrfsite)	
VALVE STENOSIS, Generic Site, Continuity Equation: Site 1 VTI	Site 1 VTI (99SEQUOIA, VTIsite1gence)	
VALVE STENOSIS, Generic Site, Continuity Equation: Site 2 VTI	Site 2 VTI (99SEQUOIA, VTIsite2gence)	
VALVE REGURGITATION, Generic Site, Generic Site Regurgitation PISA: Site Regurg VTI ----- [HR not shown on report page]	Site Regurgitant VTI (99SEQUOIA, VTIsiteregpisa) Heart Rate (LN, 8867-4) [Property of associated Site Regurg VTI]	
PRESSURE PREDICTIONS, Expanded Bernoulli, Expanded Bernoulli: V1 Vmax	Site V1 Peak Velocity, Full Bernoulli (99SEQUOIA, VMAXv1fullbern)	
PRESSURE PREDICTIONS, Expanded Bernoulli, Expanded Bernoulli: V2 Vmax	Site V2 Peak Velocity, Full Bernoulli (99SEQUOIA, VMAXv2fullbern)	
PRESSURE PREDICTIONS, Simplified Bernoulli, Simplified Bernoulli: V2 Vmax	Site V2 Peak Velocity, Simplified Bernoulli (99SEQUOIA, VMAXv2simpbern)	